TWO SECTIONS—SECTION 1

Engineering News

Volume 76, No. 26
Issued Every Thursday
Hill Publishing Company

NEW YORK, DECEMBER 28, 1916

Price, 15 Cents
Contents, First Page
Advertising Index, Last Page

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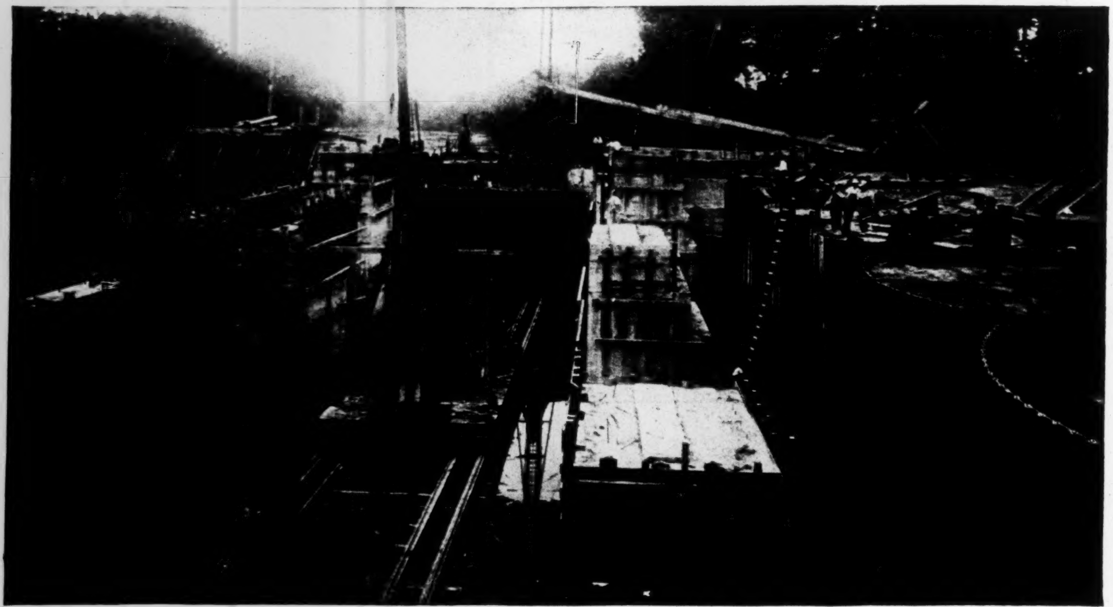

Building the walls of Lock No. 2, Cape Fear River, Brown's Landing, N. C., within a Lackawanna Steel Sheet Piling Cofferdam that was unharmed by unusually severe conditions.

The outside head of water at the time this picture was taken was 26 feet and shortly afterwards a fast rise in the river flooded the cofferdam completely. This flooding had already been a frequent occurrence due to the treacherous nature of the river here, and sometimes completely submerged the cofferdam. For this reason, a 12-in. pipe was put through one of the pockets 12 feet below the top as shown on the far wall and arranged with gate valve control, to partially flood the interior and ease off the excessive unbalanced pressure just before complete flooding.

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Engineering News

VOLUME 76 DECEMBER 28, 1916 NUMBER 26

Flushing Streets from Trolley Cars at Worcester, Mass.

Trolley-car street flushers have been in use in the cities of Worcester and Springfield, Mass., for over a year. Worcester was the first city in the country to introduce street-car sprinklers, and in 1915 it was the first to introduce the new street-car flushers. A. T. Rhodes, Street Commissioner of Worcester, from whom the following data were obtained, states that these machines are operated throughout the entire season with great satisfaction—so much so that during the present year (1916), the older methods of street cleaning have been abandoned on all paved streets where there are electric-railway tracks.

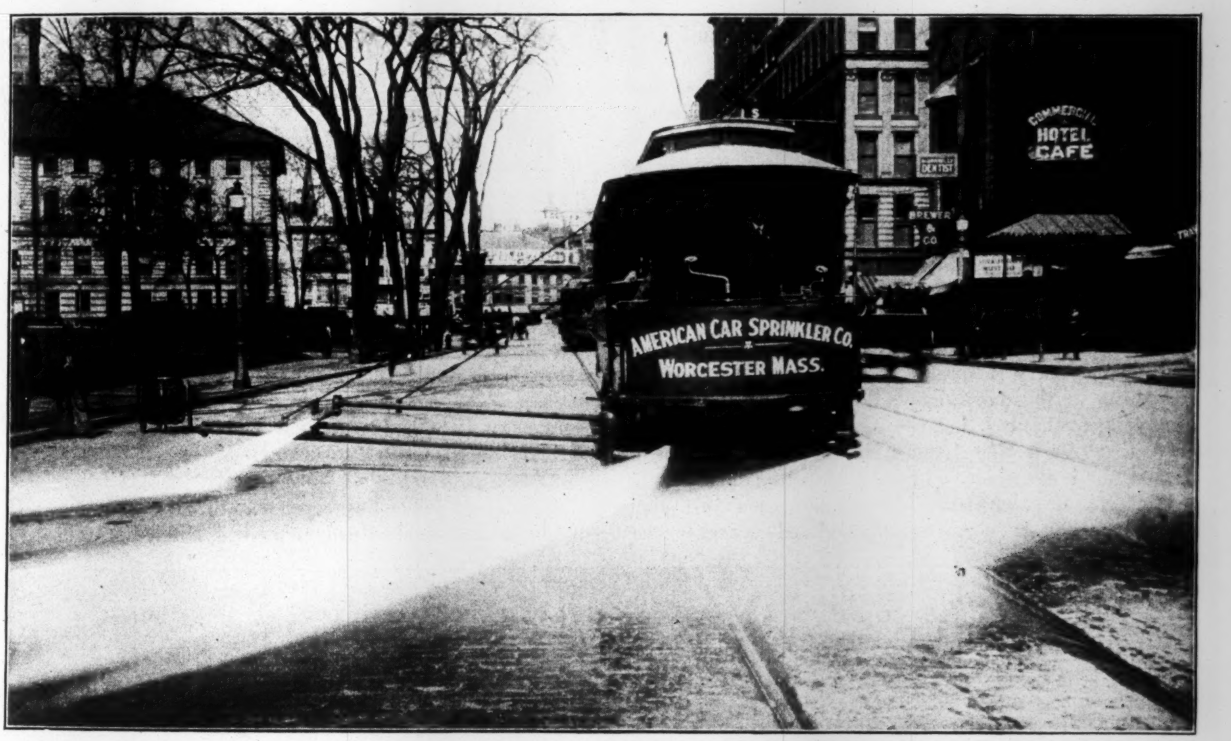


FIG. 1. STREET-FLUSHING TROLLEY CAR AS USED AT WORCESTER, MASS.

The flushing machine used is a trolley car, containing a tank with a capacity of 2,900 gal. The tanks are filled from subsurface hydrants placed between the rails or tracks of the trolley system, and accessible by removing ordinary sewer manhole covers. The temporary connection is made by flexible leather pipes.

The pressure for flushing is obtained by a centrifugal pump having a maximum capacity of from 500 to 600 gal. per min., a speed of 2,600 r.p.m., giving a normal working pressure of 80 lb. per sq.in. The pump is driven by a 45-hp. electric motor. The pump discharge is equipped with a bypass, enabling the operator to cut down the nozzle pressure to as low as 30 lb. per sq.in. The operation of the car and flushing apparatus requires a crew of three men.

On the wide streets there are five nozzles pointing in the direction the car is going, three on the car and two on the swinging arms (see Fig. 1). One of the three nozzles on the car, on a double-track street, catches the refuse lying on the paving between the two tracks and throws it to the opposite track, then the return trip in the opposite direction catches the material and flushes it to the gutter.

Sprinkling within an hour ahead of the flushing has been found to be essential for the best results. For this purpose the older sprinkler type cars are economically used. The sprinkling softens up any deposits which are stuck down on the pavement and makes it easy to remove them with the flusher. The new flusher cars have the original sprinkling attachments, both on the car and on the swinging arm, so that the same car can be used for both sprinkling and completing the work with the flushing nozzles, if so desired.

With preliminary sprinkling a car flusher will cover about 10.5 mi. of street per night. The average eight hours' work for a car doing both sprinkling and flushing is about 9 mi. of street varying from 25 to 75 ft. between curbs. During eight hours' use the car flusher distributes approximately 95,700 gal. of water. One tank of water is sufficient to sprinkle a street 38 to 45 ft. wide between curbs a distance of about one mile. The same tank of water will properly flush between one-quarter and one-third of a mile.

Previous to the adoption by the city of the method of flushing at night, the streets were sprinkled by trolley cars during the day. Under the day sprinkling system the water simply laid the dust, and the other refuse which had accumulated upon the street surface remained, forming a greasy, slippery scum on the surface, extremely dangerous to vehicular traffic. Night flushing has made it possible to discontinue sprinkling during the day.

When the day sprinkling was in operation three car sprinklers, making several trips over each street every day, covered the same area now covered by two flushers, making one round trip nightly, for sprinkling and flushing combined. The flushers work eight hours, and the sprinklers under the old method worked 14 hr. per day. The amount of water used under the flushing system is about 60% of that used under the old style sprinkling, while the present combined sprinkling and flushing requires about 85% of the former amount.

Previous to the installation of this system two machine broom squads were worked at night, covering these paved streets from two to three times per week. This work cost $14,000 yearly and was not very satisfactory. Moreover, it was difficult to keep track of the labor during the night hours. This has been discontinued entirely; the only cleaning necessary is taken care of by pushcart men, the first thing in the morning. They clean up the gutters, and owing to the fact that the streets are absolutely clean when they reach them, their labors have not been increased nor is there any additional expense incurred.

The cost of catchbasin cleaning has been just about doubled on streets which are flushed. The average cost per catchbasin per year for cleaning was $1.95, and on streets flushed this has been increased to $3.90.

The street-car flushers and sprinklers are operated under contract with the American Car Sprinkler Co., of Worcester, which in turn makes the contract with the street railway company for use of tracks and for power.

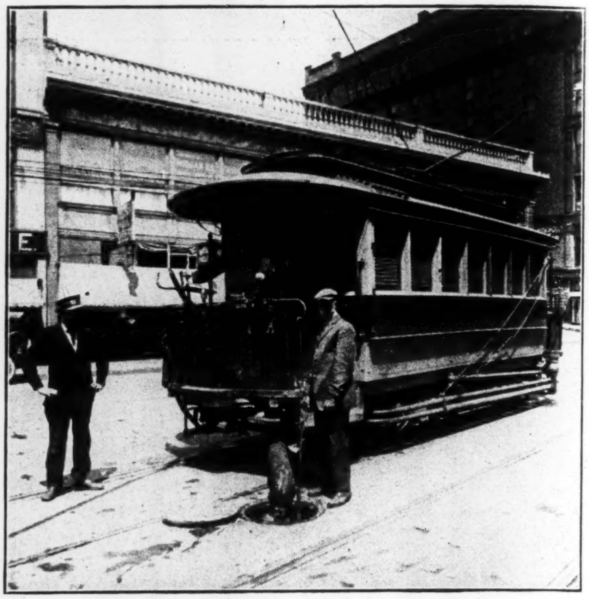


FIG. 3. FILLING CAR FROM SUBSURFACE HYDRANT

Each car is equipped with "Servis" recorders, as a check on the mileage covered. The accompanying tables give the contract prices for flushing and for sprinkling. The assesments against abutting property for street cleaning vary by ½c. per lin.ft. for each 5 ft. in width of street from 3½c. for a 25-ft. street to 10c. for an 80-ft. street. The American Car Sprinkler Co. has similar contracts with Malden, New Bedford, Springfield and Somerville, Mass., Manchester, N. H., and Syracuse, N. Y.

Similar methods have been employed in Worcester by using motor-truck flushers and sprinklers. The two

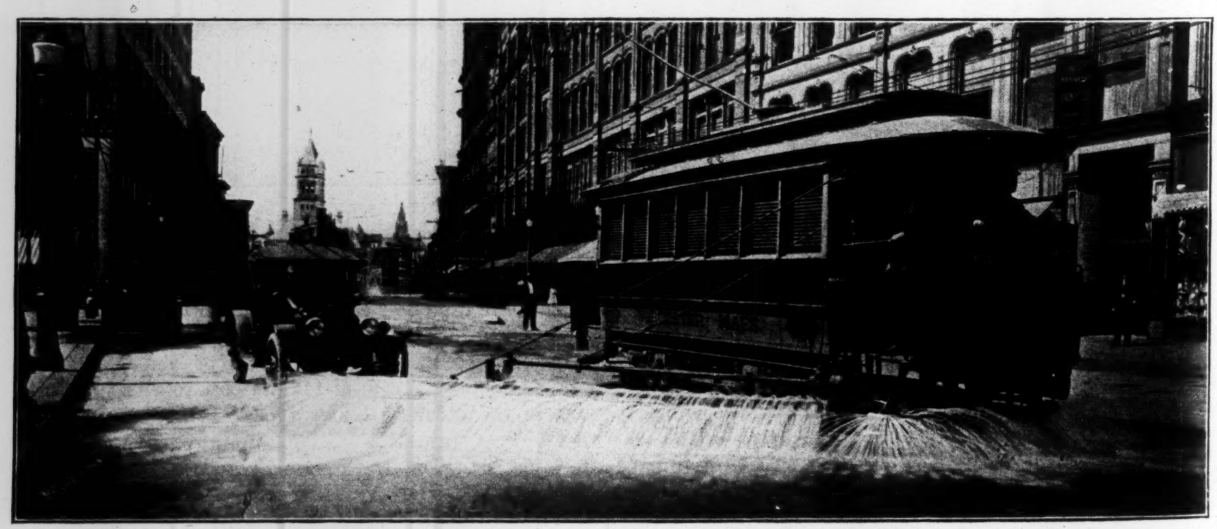


FIG. 2. FLUSHING CAR USING SPRINKLING APPARATUS

trucks now in use there average together about 5 mi. of streets per night, but in addition the trucks do some sprinkling and flushing to help out the trolley work. There are not enough paved streets without trolley tracks to make their independent operation economical.

TABLE 1. CONTRACT PRICES OF WORCESTER STREET SPRINKLING AND FLUSHING

Street Sprinkling		Street Flushing	
Width of Street, Ft.	Cost per Mile	Width of Street, Ft.	Cost per Mile
25	$396.00	25	$448.80
30	464.64	30	552.72
35	533.28	35	596.64
40	564.96	40	633.60
45	596.64	45	670.56
50	665.28	50	749.76
55	733.92	55	823.68
60	929.28	60	1,045.44
65	997.92	65	1,119.36
70	1,129.92	70	1,272.48
75	1,198.56	75	1,346.40
80	1,261.92	80	1,420.32

TABLE 2. ASSESSMENT PER FRONT FOOT ON ABUTTING PROPERTY

Width of Street, Ft.	Per Lin.Ft. Cents	Wdith of Street, Ft.	Per Lin.Ft., Cents
25	3½	60	7½
30	4	65	8
35	4½	70	9
40	4¾	75	9½
45	5	80	10
50	5½	100	11¾
55	6		

⁂

Bottom Driven Concrete Piles on Government Job

By C. S. Howell*

Reinforced-concrete piles of the Giant type, that is piles which are driven by a temporary follower against projections on the pile point (see *Engineering News*, Mar. 2, 1916), are being successfully used on a new Federal building at Wilmington, N. C., under conditions which it was considered precluded the use of piles entirely. A typical pile section and location is shown in the accompanying drawing.

The site of this work was formerly covered with buildings which were razed to make way for a new Custom House, Appraiser's Stores and Court House. The old foundations were left below the surface of ground practically intact. Under these, the earth is generally a mixture of fine blue sand mixed with clay, and in places heavy beds of a substance resembling asphalt have been encountered. The consistency of the earth penetrated is such that excavation is extremely difficult, due to adhesion to the excavating implements, and the earth has refused to yield to enormous water pressure applied through jets.

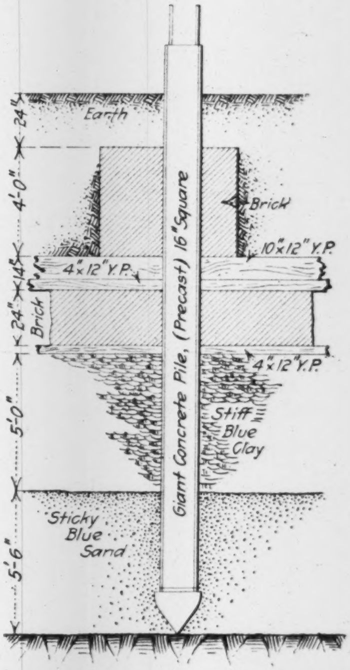
The piles are driven in an average time of eight minutes, actual driving, to refusal upon the underlying coral rock.

The work involves 710 piles, with an average depth of 25 ft. They are driven with a No. 0 Vulcan steam hammer, weighing 17,500 lb. and delivering 1,800,000 ft.-lb. per min. The piles are 16-in. square and contain four ¾-in. square deformed bars which are looped or hooked through the cast-iron point and tied at intervals to maintain uniform spacing.

Why Not Design Piles for Loads?

In connection with this work it has occurred to the writer to inquire why concrete piles should not be proportioned to the load they must carry. With wooden piles natural restrictions made it quite general to load without regard to the size of the pile, probably because there did not exist any great variation in size with regard to ratio of end diameters to length. The introduction of concrete piles did not involve this fixed condition but opened the way to proportioning size to imposed loading. Yet it is notable that little use of this important fact is now resorted to. Concrete piles are placed without regard to the individual capacity of the pile selected. By means of the method described by the writer in *Engineering News*, Apr. 27, 1916, it is possible without difficulty to apply the Wellington formula so that the load capacity is obtained, accordingly leaving no good reason for not selecting any particular pile upon the basis of its suitability and its cost per ton of load carried rather than by the haphazard manner most generally followed.

The pile shown in the sketch herewith is good under the New York building regulations for about 65 tons safe load, which is in full accord with the usual conservative practice regarding stresses allowed in superstructures subjected to vibration and other sources of danger not involved to the same degree in substructures. As a quite general thing in foundation work it will be found that plans are prepared for a fixed number of piles, and the type of pile as well as its load capacity are given little consideration in competition upon cost, whereas a consideration of the simplicity of work in adopting piles to foundation layouts would involve more exact competition both upon cost and merit.



SECTION OF GROUND THROUGH WHICH WILMINGTON, N. C., PILE WAS DRIVEN

Building regulations are striving to regulate rule-of-thumb methods, as in New York City where 500 lb. per sq.in. of cross-section is allowed upon precast piles and 350 lb. upon cast-in-place piles, and also where average cross-section applies in case of tapered piles. Aside from such regulations, the custom largely prevails of using so many piles upon customary centers more according to footing areas than to the capacity of the piles.

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*Civil Engineer, 550 W. 174th St., New York City.

Rainfall Data Interpreted by Laws of Probability

By Thorndike Saville[*]

SYNOPSIS—Presents enough theory, with examples, to make the probability method available to those not proficient in the use of least squares. Indicates practical applications not in general use.

The interpretation of physical observations may be greatly enhanced by the application of the laws of probability. This method is one not in general use by engineers, due possibly to the limited extent of adequate knowledge regarding it. The writer presents herewith an outline of the method and computations involved in its application to the rainfall data of Hartford, Conn.

Mean of a Series of Observations

The method finds its basis in the general laws of probability which may be found in any textbook on least squares. In any series of recorded observations having equal weight and upon the same quantity, it is mathematically true and has been generally assumed that the most probable value is the average or mean of the observations. Where $M_1, M_2, M_3, \ . \ . \ . \ M_n$ represent n single observations of equal weight on a single quantity (such as yearly records of rainfall) the most probable value of that quantity is $\dfrac{M_1 + M_2 + M_3 + \ldots\ldots M_n}{n}$. Thus in Table 1, column 1, the most probable value of the annual rainfall at Hartford is about 44 in. This, or any, most probable value is more or less probable, according to the number and frequency of the observations. The probable error of the mean is explained in the following section. The lower the probable error, in general the more accurate the series of observations, and the more probable the mean of the series.

Variations and Probable Error

The amount by which any observation in a series differs from the mean is called the residual or "variation," and is expressed by v. Thus if M_1, M_2, M_3, etc., represent any series of observations and P represents the mean of the series, then $P - M_1 = v_1$, $P - M_2 = v_2$, $P - M_3 = v_3$, etc. The variations of the annual rainfall at Hartford from the 47-year mean are given in Table 1, column 2.

The calculation of the variations may be considerably shortened by taking the mean to the nearest even inch, and subtracting each individual observation. The error introduced is not appreciable in rainfall computations. (See King's "Elements of Statistical Methods," page 149).

By the laws of probability, the mathematical deductions of which are here omitted, "in measurements of equal precision the most probable values of observed quantities are those which render the sum of the squares of the residual errors (variations) a minimum."[1] Hence the term "least squares." The squares of the variations for the Hartford data are tabulated in Table 1, column 3.

The most probable value of a series of observations of equal weight upon a single quantity is then the arithmetic mean. Thus if

Z = Most probable value of a term in a series of observations;
n = Number of observations;
M = Any observation;
v = Variation of a single observation from the mean;
r = Probable error of a single observation;
R = Probable error of the mean;
Σ = Sum of.

Then, omitting mathematical proof,

$$Z = \frac{\Sigma M}{n}, \quad r = 0.6745\sqrt{\frac{\Sigma v^2}{n-1}},$$

$$R = \frac{r}{\sqrt{n}} = 0.6745\sqrt{\frac{\Sigma v^2}{n(n-1)}}$$

The quantity $\sqrt{\dfrac{\Sigma v^2}{n-1}}$ is called the "standard varia-

TABLE 1. STUDY OF RAINFALL DATA, HARTFORD, CONN.

Yearly Rainfall in Inches in Order of Magnitude	Variations from the Mean	Variations Squared	Percentage of Total for Plotting
33.64	10.34	106.92	0.0106
34.11	9.89	97.81	0.032
34.78	9.22	85.01	0.053
35.74	8.46	71.57	0.074
36.02	7.98	63.68	0.096
36.88	7.12	50.69	0.117
36.91	7.09	50.27	0.134
37.04	6.96	48.44	0.160
37.68	6.32	39.94	0.180
38.25	5.75	33.06	0.201
38.95	5.05	25.50	0.224
39.16	4.84	23.43	0.245
39.45	4.55	20.70	0.266
39.73	4.27	18.23	0.288
40.17	3.83	14.67	0.309
40.75	3.25	10.56	0.330
41.09	2.91	8.47	0.351
41.53	2.47	6.10	0.372
41.56	2.44	5.95	0.394
42.07	1.93	3.72	0.415
42.07	1.93	3.72	0.436
42.20	1.80	3.24	0.457
42.42	1.58	2.50	0.478
43.60	0.40	0.16	0.499
43.66	0.34	0.12	0.522
45.35	1.35	1.82	0.543
45.37	1.37	1.88	0.564
45.54	1.54	2.37	0.585
45.62	1.62	2.62	0.606
45.83	1.83	3.35	0.627
46.32	2.32	5.58	0.650
46.81	2.81	7.90	0.671
47.13	3.13	9.80	0.692
47.29	3.29	10.82	0.713
48.47	4.47	19.98	0.735
48.71	4.71	22.18	0.756
49.22	5.22	27.25	0.777
49.26	5.26	27.67	0.798
50.25	6.25	39.06	0.819
50.29	6.29	39.56	0.840
51.66	7.66	58.68	0.861
52.00	8.00	64.00	0.882
52.69	8.69	75.52	0.903
53.59	9.59	91.97	0.924
55.12	11.12	123.65	0.945
55.81	11.81	139.48	0.967
56.36	12.36	152.77	0.990
$\Sigma M = 2{,}067.95$		$\Sigma v^2 = 1{,}722.17$	

$\dfrac{\Sigma M}{n} = \dfrac{2{,}067.95}{47} = 44.00$ The Mean

$R = 0.6745\sqrt{\dfrac{\Sigma v^2}{n(n-1)}} = 0.6020$ Probabl Error of th Mean

$\sqrt{\dfrac{\Sigma v^2}{n-1}} = 6.119$ Standard Variation

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[1] "Textbook on the Method of Least Squares," by Mansfield Merriman.

tion," and the ratio of the standard variation to the mean, that is, $\frac{n\sqrt{\frac{\Sigma v^2}{n-1}}}{\Sigma M}$, is called the "coefficient of variation." The first term is simply the expression for probable error of a single observation with the constant 0.6745 omitted. The coefficient of variation indicates the frequency of departure of single observations from the mean, and serves as a means of comparing similar data from different localities. The application of this coefficient to the interpretation of rainfall data has been presented by Allen Hazen in *Engineering News*, Jan. 6, 1916. The following remarks are taken from his article on "Variation in Annual Rainfall":

> The coefficient of variation is lowest on the Atlantic coast. That means that one can count on getting more nearly the normal rainfall each year; and on the Atlantic coast the coefficient does not range through wide limits. . . . As one goes west, the coefficient in annual rainfall increases; that is to say, the chance of a very dry or a very wet (relatively) year is increased. . . . At New York the coefficient of variation is 0.15; at San Francisco it is 0.30. This means that on the average the relative variations in annual rainfall at San Francisco are twice as great as at New York.

The coefficient of variation for Hartford, as computed[2] from the data in Table 1, is thus from the formula above $\frac{47\sqrt{\frac{1,722.17}{46}}}{2,067.95} = 0.139$, which does not vary greatly from that at New York.

When used in the interpretation of rainfall data it is evident that the quantity called here the "probable error" is not an expression of error, but an indication of the annual variations from the mean, although observational errors are also included in the adjustment. It represents, let us say, the error of nature in not providing a constant annual rainfall. This annual deviation and its frequency is best expressed by the coefficient of variation, although, as can be seen from the formula, this latter is dependent upon the probable error, so called. The relation between these two quantities is indicated in the table below, a low probable error producing a low coefficient of variation.

From these figures it is evident that individual observations of rainfall extending over long periods of time do not necessarily tend to depart less from the mean than they do in certain shorter time records. Frequency of departures from the mean are dependent upon location of the place and the governing meteorological conditions, and are indicated by the magnitude of the coefficient of variation. Thus at Hartford, with a 48-year record, the annual rainfall varies less from the average than does that at Boston with a 96-year record. To be comparable, however, the observations must be of equal precision, and whether they are so in the cases cited the writer is unaware.

Many communities in New England will in the next decade or so have 100 years of rainfall record. When this record extends over a period greater or less than 100 years by not more than 5 years, the probable error of a single observation may be obtained nearly enough by multiplying the probable error of the mean by 10. The standard variation is then found by dividing by 0.6745. Thus for New Bedford,

TABLE 2. STUDY OF HARTFORD, BOSTON AND NEW BEDFORD RAINFALL DATA

Place	Years of Record	Probable Error of Single Observation	Standard Variation	Probable Error of Mean	Coefficient of Variation
Hartford, Conn.	48	4.127	6.119	0.6020	0.139
Boston, Mass.	96	5.458	8.092	0.5571	0.178*
New Bedford, Mass..	100	4.468	6.624	0.4468	0.143*

*"Rainfall in New England," by X. H. Goodnough, Jour. New Eng. W.-W. Assoc., Vol. XXIX, No. 3, 1915.

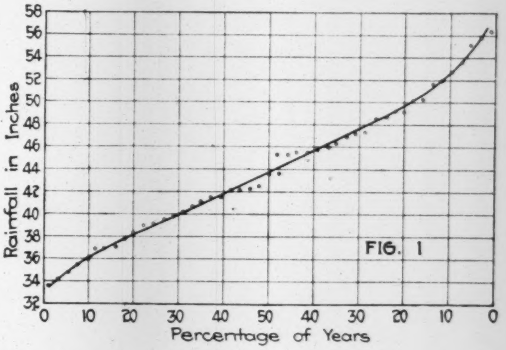

FIG. 1

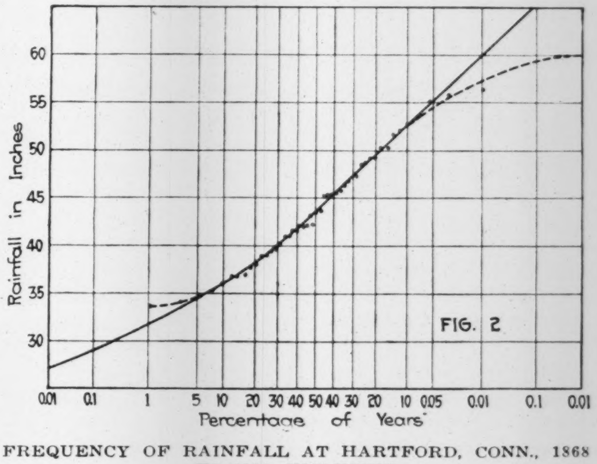

FIG. 2

FREQUENCY OF RAINFALL AT HARTFORD, CONN., 1868 TO 1914, INCLUSIVE

Time = 47 Years

Per Cent. of Time	Equivalent Years	Equals Once in	Rainfall in Inches of
25	11.8	4 yr.*	39 or less, or 48 or more
10	4.7	10 yr.	36 or less, or 53 or more
1	0.47	100 yr.	34 or less, or 56 or more
0.1	0.047	1,000 yr.	29 or less, or 65 or more

*It is at once evidence that the frequency of occurrence of a rainfall of any given magnitude is obtainable at once from the curve by the simple relations that

$$\text{Frequency} = \frac{100}{\text{Per cent. of time}}$$

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[2] For purposes of illustration, and to indicate how expeditiously all the quantities mentioned may be found, the following computations for the Hartford data are presented. Reference should be had to Table 1 and the formulas.

log Σv^2 (1,722.17) = 3.23621
log n(n-1) (2,162) = 3.33486

extract square root 2)$\bar{1}.90135$ log n (47) = 1.67210
log $\sqrt{n}$ = 0.83605

$\bar{1}.95062$
log 0.6745 = $\bar{1}.82898$

$\bar{1}.77960$ = 0.6020 = R
log $\sqrt{n}$ = 0.83605

0.61565 = 4.127 = r
log 0.6745 = 1.82898

0.78667 = 6.119 = standard variation
log n (47) = 1.67210

2.45877
log ΣM (2,067.95 = 3.31555

$\bar{1}.14322$ = 0.139 = coefficient of variation

With care, the quantities may be computed accurately enough for most purposes by the slide rule.

$$\textit{Probable error of mean} = 0.4468$$

$$\textit{Probable error of single observation} = 0.4468 \times 10 = 4.468$$

$$\textit{Standard variation} = \frac{4.468}{0.6745} = 6.624$$

$$\textit{Coefficient of variation} = \frac{100 \times 6.624}{4{,}646.85} = 0.143$$

PETER'S FORMULAS FOR PROBABLE ERROR

There are simpler formulas for obtaining probable error known as Peter's formulas. These are somewhat easier of application in that they do not necessitate computing the squares of the residuals. They are based, however, upon slightly different reasoning than the standard formulas presented above, and unless the observations follow the probability curve fairly closely the results obtained from using these formulas will differ from those obtained by use of the standard formulas. Peter's formulas are given below:

$$R = 0.8453 \frac{\Sigma v}{n\sqrt{(n-1)}} \qquad r = 0.8453 \frac{\Sigma v}{\sqrt{n(n-1)}}.$$

$$Coef.\ var. = 1.25 \frac{\Sigma v}{\sqrt{n(n-1)}} \times \frac{n}{\Sigma M}$$

From these the following approximations are evident:

$$R = 0.85 \frac{\Sigma v}{n\sqrt{n}} \qquad r = 0.85 \frac{\Sigma v}{n} \qquad coef. var. = 1.25 \frac{\Sigma v}{\Sigma M}$$

While, as stated, these formulas are considerably easier of solution than the standard formulas, they should be used only when it is known that the observational data follow the probability curve fairly closely. Ordinarily in computations involving rainfall data where comparison is likely to be made with figures obtained at other places, the chief value in these approximations lies in applying them as an independent check to computations made with the standard formulas.

Peter's formulas are presented here only from their utility as a check method, and because they have been suggested at times as offering a much simpler method of finding the probable error. Space does not permit of a discussion of the relative merits of the several formulas, but the standard formulas are those which are commonly used in scientific work.

THE MEDIAN OBSERVATION

If the series of observations be arranged in order of magnitude as in Table 1, column 1, that observation which has as many observations greater than it as there are less than it, is called the "median." In this case the median is 43.60 in. while the mean is 44 in. When there are a few very large or very small (relatively) observations entering into the calculation of the mean, the median is a better expression of the most frequent observation. When the median approaches the mean in value, as occurs in the Hartford data, it is commonly an indication that the series of observations follow closely the laws of probability. In such cases Peter's formula might be used as the shorter process. Both the median and the mean should be computed in all studies of rainfall data.

If a series of observations be arranged in order of magnitude and plotted against the frequency of their occurrence, and if they conform at all to the laws of probability, they will fall along a curve of the general form shown in Fig. 1. The Hartford rainfall data fall along a curve which closely approaches the theoretical in shape. Such a curve is defined as a "frequency curve."

In plotting such a curve as that in Fig. 1, the horizontal distance along which the abscissas will lie is divided into 100 parts. The observations, arranged in ascending order of magnitude, are plotted as ordinates, and the per cent. which each term is of the whole number of terms is plotted as abscissas. *The latter is plotted cumulatively.* Thus in Table 1, column 4, as there are 47 observations, each observation is $\frac{100}{47} = 2.128\%$ of the whole. The abscissa for the first observation is at the middle of the distance representing 2.128%, or on the 1.06% line. The next largest observation is plotted at a distance 2.128 greater than this, or on the 3.2% line; the next on the 5.4% line, etc. Hazen[3] states that the decimal position of the mth term in a series of n terms is $P = \frac{2m-1}{2n}$. In numbering the vertical lines the numbers have for convenience been made to run from 0 to 50 and back to 0 on the bottom of the diagrams, and from 0 to 100 on the top. Thus on the 80% line it is seen that 80% of the time a rainfall of 48.8 in. or less occurred, and that 20% of the time a rainfall of 48.8 in. or more occurred. It is the extreme value, however, which is of the chief utility, as is evident from the following paragraph. For convenience in computation the percentages are calculated from 0 to 100 as in Table 1, column 4.

When observational data fall along a curve of this general type so closely as in this instance, the probability of occurrence of a rainfall of any magnitude may be found at once from the curve. The method of using the curve is evident from the data given beneath Figs. 1 and 2.

THE STRAIGHT-LINE FREQUENCY CURVE

At times observational quantities when plotted do not lie smoothly along such a curve as that in Fig. 2, nor does the curve so nearly approach a straight line. In such cases, by varying the spacing of the ordinates in accordance with changes in the value of the probability integral, and by varying the spacing in the same proportion on each side of the 50% line, the ends of the curve may frequently be straightened and the data made to lie more nearly on a straight line. This line may then be produced beyond the limits of the observed data and the probability of occurrence of extraordinary phenomena predicted. The method of plotting is the same as for Fig. 1 and is illustrated in Fig. 2. The full line indicates the probable trend of the observations, while the dotted lines at each end follow more closely the plotted points. At the ends these points represent such infrequent phenomena that they are not of great value in determining the slope of the line.

At times the nature of the data is such (though rarely in rainfall studies) that the curve departs considerably from a straight line even on probability paper. Sometimes, in such instances, if the data be plotted to a logarithmic instead of to an arithmetic scale, a better curve will be obtained.

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[3] "Storage To Be Provided in Impounding Reservoirs for Municipal Water-Supply," by Allen Hazen, Trans. Am. Soc. C. E., Vol. LXVII, December, 1914. This article treats in considerable detail of the application of the laws of probability to data relating to flow of streams and storage. It explains the method of using the probability curve from such data, and also the manner of constructing probability paper.

The writer has attempted in the foregoing discussion not only to present certain applications of the laws of probability to the interpretation of rainfall data, but also by formulas and tables to make plain the utilization of such data by those who are not versed in the theories of least squares. The value of the methods indicated lies in their applicability to the interpretation of rainfall statistics and their relation to the compilation of data pertaining to freshet conditions, storage, design of spillways, sewers, culverts, etc. Thus it might be allowable to design a sewer that would likely be flooded once in 100 years, while a sewer that would be flooded once in 10 years would be undesirable.

The formulas and methods outlined herein are of wide applicability, and opportunities to utilize them will be readily apparent. In many instances in engineering work, in addition to the interpretation of rainfall data, the utilization of statistical information according to the laws of probability, and the precision discussion of results, will be found of the utmost value. A recent article in the Journal of the Franklin Institute[4] presents briefly some of the more important applications of this method, and mentions its use in statistics relating to death rates, to the number of bacteria in water and milk, to sand analysis, to filter effluents, and to precision determinations of the free and albuminoid ammonia in water. The application of the methods of least squares to a precision discussion of tests on cement and sand briquettes has been previously indicated by the author.[5]

Acknowledgment is due Prof. G. C. Whipple, of Harvard University, for certain suggestions concerning the applicability of computed data to engineering practice, and to Prof. S. L. Ruggles, of the Thayer School of Civil Engineering at Dartmouth College, for review and criticism of the manuscript.

The Element of Chance in Sanitation," Prof. G. C. Whipple, Jour. Franklin Inst., Vol. 182, Nos. 1 and 2, July and August, 1916.

[5] "Effect of Iron and Calcium on Concrete Sand," Thorndike Saville, "Engineering News," Vol. 74, No. 26, Dec. 23, 1915.

Hydraulic Hopper Dredge with Unloading Machinery

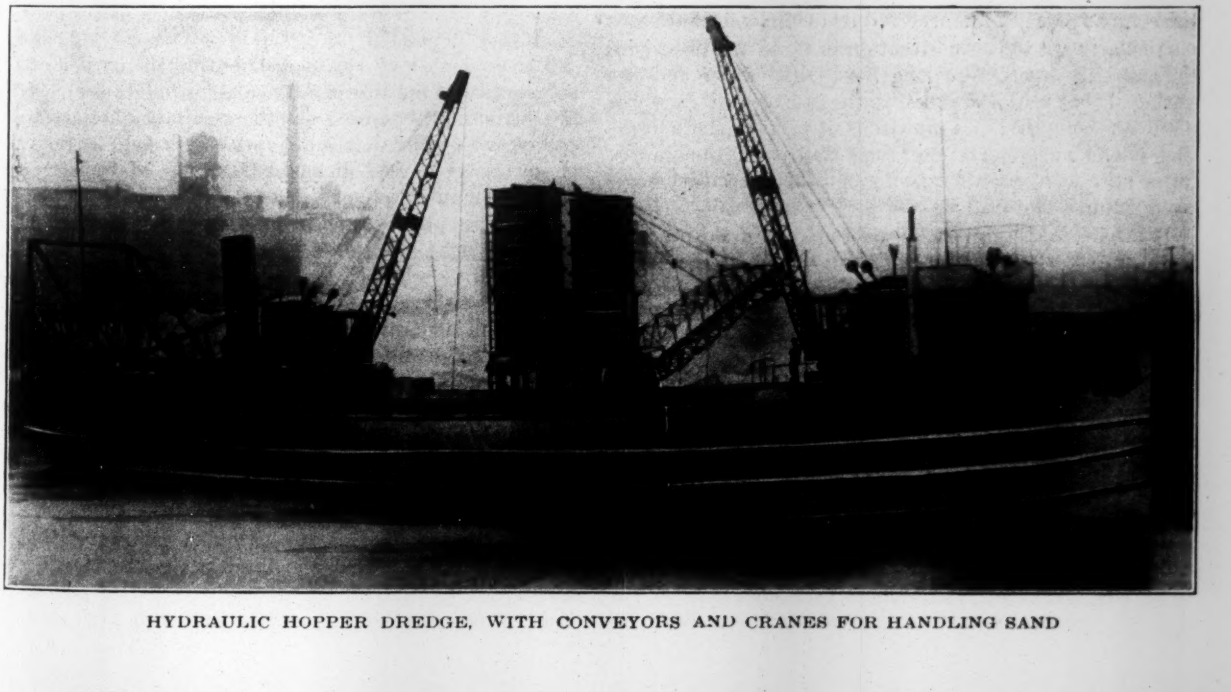
For dredging and transporting sand to be used in concrete and building construction, and also for filling, the Hydraulic Sand and Transit Co., of Chicago, has a large "sand-sucker," or suction dredge, with hopper capacity for 1,500 tons and with special equipment for putting the material ashore. This vessel—the "Hydro"—was built and equipped by the Manitowoc Ship Building Co., of Manitowoc, Wis.

This steamer is shown in the accompanying illustration. It has a steel hull 180 ft. long, 40 ft. beam and 19 ft. deep, with a draft of 10 ft. light and 14½ ft. loaded. Its displacement is 2,100 tons, and the two hoppers in the hold have combined capacity for 1,500 tons of sand. The propeller is driven by a triple-expansion engine of 650 hp.

There are two 12-in. suction pumps and pipes, and each pipe has a hinged outboard section of 12-in. rubber pipe 25 ft. long, from its connection to the fixed pipe, and having the mouth fitted with jets and teeth for loosening packed sand. These pipes are handled by booms guyed from a gallows frame at the stern of the vessel, and are swung on deck when not in use. They can dredge to a depth of about 20 ft.

If the sand is to be used for filling, it can be pumped ashore through a delivery pipe; but for storage it can be handled dry by means of grab buckets and belt conveyors. In the former case the necessary amount of water is delivered to the hoppers by means of a large force pump.

For unloading in dry condition, there are two McMyler revolving cranes, each with its own engine and boiler. These are mounted on the deck, and each handles a 1½-yd. grab bucket with a 45-ft. boom having a reach of 25 ft. for delivering the sand direct. Ordinarily, however, the grab buckets dump their contents into a hopper, beneath which runs a transverse belt conveyor. This feeds a 30-in. belt conveyor on a boom or frame 75 ft. long, which is hinged at the side of the vessel. The vessel can fill the hoppers in 1½ to 5 hr., and can discharge its load in 2½ to 4 hr. Its speed, when loaded, is about 12 m.p.h.



HYDRAULIC HOPPER DREDGE, WITH CONVEYORS AND CRANES FOR HANDLING SAND

Side Lights on Depreciation Problems of Utilities--II*

BY HARRY BARKER†

SYNOPSIS—Review of schemes for computing annual depreciation of utility property and making the annual compensation approximate the annual decrement in value. Theory of steady fixed charges advanced as controlling. Compound-interest computations shown as a means of approach. How effect of increasing operating costs and decreasing capacity are taken into account. Complementary to earlier article defining depreciation and discussing the collection of compensation for it.

The hard problem in practical depreciation studies is not to find out whether it is wear-deterioration or natural dilapidation or functional antiquation that will fix the life of various parts of plant before they have to be retired. The greater problem is, once the probable term is accepted, How shall the total loss of value most fairly be distributed over the years? It can be shown that this is secured by following the theory that a steady aggregate of annual fixed charges is a normal economic phenomenon, or rather would be in the absence of fluctuating cost of materials and labor. Before that theory is presented, however, it is best to approach the subject by looking at some of the older attempts to make compensation for depreciation (defined as "retirance" in the previous article) follow the loss of value.

MAINTENANCE PLAN

The oldest and the simplest attempt to saddle renewals on customers was by charging them for all the repairs and renewals of the year. This had the unfortunate effect in some cases of placing an extreme burden of retirance on some years and practically none on others, with the result that rates were too far below true cost at the start and the company was in financial straits at the end. Such was particularly apt to be the situation in those utilities where the property items were long lived—like water and gas works. It has worked out best in the case of utilities whose plant was composed of a multitude of parts of short life—like telephone systems and some railroads, though the latter have to resort to "expedients" when expensive long-lived fixtures like stations and bridges give way.

It is hard to distinguish between upkeep of old property and new extensions, so that one result of the direct-replacement or maintenance scheme in some cases has been to make additions out of earnings. A certain amount of such manipulation often may be sanctioned, but too much of it hides the true cost of service and may cause a company's stockholders to earn unduly on property which the customers and not the investors paid for.

The actual value of an established property in equilibrium administered after this scheme is only from 60 to 85% of the investment (plus appreciation). This 15 to 40% depreciation is lost to the company, according to the Knoxville decision (cited on this point in the previous article), through neglect to collect. The plan gives no adequate knowledge of the annual depreciation and it is assuming less and less importance each year.

APPRAISAL PLAN

A second plan that has been tried is the subtraction from earnings of sums which an examination of the property shows represent the loss in value. This is better in theory than in practice—due to certain human limitations and to one inherent defect. Changes due to depreciation are not well disclosed by annual examinations because of but slight changes in appearance from year to year—differences which, however, become more noticeable as the period between appraisals lengthens. Then the mind of the appraiser may change from year to year, or, more likely perhaps, the appraisers themselves may change and bring a radical change in standards of comparison.

This sort of depreciation levy must be dangerous, in view of the Knoxville decision. It gives weight largely to superficial evidence of past deterioration, while the worth of the property, from the point of view of the integrity of investment, has been further impaired by the accrued liability for renewals on account of probable obsoletion. It will not do to say that the depreciation compensations secured from rates relate absolutely to the past loss—to what can be seen to have definitely happened. Retirements of obsolete equipment must come in the future, it is true, but when they do come they must be paid out of past earnings or future economies, to accord with the Knoxville decision. This means that the utility has an increasing liability each year for obsolescence and that each year something must be secured to compensate for the annual increment of this liability.

STRAIGHT-LINE SCHEME

The most obvious way of distributing the burden of retirement over the life of service is to divide the cost by the years of life and set out the resultant quotient from each year's earnings. Such money can be held by the utility owner as he sees fit against the day of replacement. If the accumulated reserves and the time passed be plotted as a mathematical graph or "curve," the form will be a straight line of course—hence the engineer's term "straight-line scheme" which has mystified most laymen and some attorneys.

One difficulty is that in spite of a superficial plausibility in the straight-line plan, there is no logical reason to expect that simple depreciation necessarily accumulates in direct proportion to the age—that the value of a machine is half gone at half its expected life. Indeed when property having a very long life, like cast-iron pipe, which is good for 60 to 100 years, is considered—the value is seen to be not inversely proportional to the age. In fact the pipe at 30 years is worth 80% instead of 50%—because of the importance of interest element in affecting worth. Moreover, during the early period of operation, the load is apt to be light and the unit costs high anyway, so that the development of the business would be hampered by large retirance factors in rates.

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*Advance publication of parts of a chapter from a forthcoming book, "Public Utility Rates," to be published by the McGraw-Hill Book Co. Copyright; rights reserved.

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However, on the other hand, if the utility property largely consists of a great number of short-lived items, as is the case with most telephone systems, railroads and some electric railways, then the straight-line scheme has an attractive simplicity and the discrepancy between actual depreciation and retirance secured cannot be appreciable. Straight-line schemes here have an advantage over the actual-renewal or maintenance basis for utilities whose properties may not show anything approaching equilibrium between depreciation and maintenance.

Sinking-Fund Annuity Plan

The most popular scheme of computing the annual depreciation of a property item is to consider that it follows the growth of a sinking fund sufficient to extinguish the cost at the end of the probable life. Now, as is well known, a sinking fund grows through the payment to it of an annuity or annual contribution and by the investment of the sums so contributed, so that there is an annual sum for interest which is retained in the fund. The annuity or annual contribution is made of such size that it will, if invested at compound interest, with the interest accumulations equal the cost of the property item after a given number of years, representing the life of such item. Therefore, in order that the annual retirances which must come from the rate payers may closely approximate the annual depreciation increments, *they must in each year equal the annual contribution to a sinking fund plus the accumulations of interest,* and this furnishes the basis for the Stearns, or equal-annual-payment plan, subsequently described.

The general practice, however, is to include directly in the sums to be earned as retirances only the annuity or annual contribution to the sinking fund, which is a much smaller sum; and if the discrepancy were not provided for in the earnings somehow, a great injustice would be done the owner, for it is only through the rates that the entire depreciation can be made good and the investment kept unimpaired. This discrepancy between annuity and required retirance, in practice, is compensated for by allowing the owner of the property to include in rate-basis worth the undepreciated value of the property—even though it may have lost considerable value through depreciation. Part of what should have been accounted for as direct retirance is recovered under guise of interest.

It is a serious defect of the sinking-fund-annuity plan, in view of the principles underlying the Knoxville decision, that it is necessary in order to preserve equity to use the undepreciated value of property contrary to the requirements of law as interpreted in this famous case. There is danger that the law, as it stands interpreted so far, may prevail against equity for the older utilities working with sinking-fund annuities as pseudo-retirances. The injustice will come to those concerns which in good faith have used sinking-fund annuities to provide retirance. The situation is brighter for those who have been constrained by government to form sinking funds, for they may charge that confiscation has begun, unless they receive full value. The remedy for these dangers seems to be the abandonment of the sinking-fund annuity as the measure of retirance and the substitution of the larger sum numerically equivalent to a sinking-fund annuity plus the interest accumulations of the year.

A good part of the popularity of the sinking-fund-annuity plan has possibly been due to a vague feeling that somehow the depreciation was being cared for adequately at much less expense than by any other scheme. Such a view savors a bit of the old "some-thing-for-nothing" ideas that are so persistent and so often attractive.

This plan carries with it, in some cases and always in some people's minds, the implication of a distinct reserve fund invested in outside securities. However, in the great majority of cases, seemingly, the allowances so secured are put into the property in place of money that would have to be raised from outside sources. Investing reserve funds inside the business complicates the scrutiny of accounts and operating results, but it tends to reduce slightly the cost of service or product—something which is desirable.

No matter whether the retirance funds are invested inside or outside of the business, for the scrutiny of rate facts it seems essential to remember that reserves made up of sinking-fund annuities must earn for their own aggrandizement in order to provide full amortization. Therefore they are not to be regarded as free capital in studying the business, no matter how the owner chooses to handle them in the interests of daily operation.

It needs to be emphasized perhaps that in the great majority of concerns, up to the present, the sinking-fund method of figuring retirance in rates has been merely an attempted process of arriving at a fair and proper burden on the customers. The money once secured has been looked on simply as company property with no strings hitched to it. Unless the degree of regulation is severe, there is not apt to be dictation as to how the retirance moneys shall be invested. The public is protected when the utility uses these repaid moneys in well-defined and safe ways.

The complication and confusion of thought introduced into the scrutiny of utility business by the "sinking-fund" plan have led some to go back to the scheme of directly apportioning the cost of an item over the expected years of life, but not uniformly as in the regular straight-line scheme. Instead they have variously decreased it in the early years and increased it toward the end of the expected-life period of the piece of equipment in question. Usually this has been done arbitrarily and empirically.

Annual Cost of Service and Actual Depreciation

It is not mere age, nor yet service-ability drop that discloses annual depreciation, nor it is general appearance; but it is reasonable to expect that there should be some fairly logical basis of computing the probable annual real decrement. If the annual depreciation be assumed to start high, then the early retirance must be heavy and in the later years light; the fair value (rate basis, Knoxville-case standard) of an item would be low in later years and the fixed charges (interest and retirance) would greatly fluctuate. If now operating costs have not risen (excluding the effect of rise in price of labor and materials) and the service is well maintained, steady fixed charges may be regarded as a normal economic phenomenon. Fluctuation of service cost would be due to fluctuating cost of labor and supplies. That is to say, given a probable life of equipment where the fixed charges are large in proportion to the operating costs and where the deterioration or inadequacy will not seriously change the operating costs until very near the expected time of retirement, the real annual depreciation is such that the fixed charges (interest and retirance) continue steady year after year.

For example, assume that a water pipe costing new $1,000 and having an expected life of 50 years had been in use 25 years. The interest at 6% and retirance would be for the first and twenty-fifth year, straight-line plan:

1st year interest	$60.00
1st year retirance	20.00
1st year fixed charges	$80.00
25th year value	500.00
25th year interest	30.00
25th year retirance	20.00
25th year fixed charges	$50.00

If it were assumed that there was no depreciation up to 25 years, as the pipe was giving good service, the comparison would be:

1st year interest	$60.00
1st year retirance	......
1st year fixed charges	$60.00
25th year value	$1,000
25th year interest	60.00
25th year retirance	40.00
25th year fixed charges	$100.00

Following sinking-fund computations, the same pipe would show these figures:

1st year interest	$60.00
1st year retirance	3.44
1st year fixed charges	$63.44
25th year retirance fund	188.97
25th year value	11.08
25th year interest	8.66
25th year retirance (on $811.03)	14.78
25th year fixed charges	$63.44

It is obvious that the $80 and $50 given by the straight-line plan for fixed charges during the first and 25th year and the $60 and $100 given by the inspection plan are extremely abnormal and uncommercial, while the $63.44 for both years by sinking-fund computations is economically desirable and reasonable.

Where the operating expenses go up materially due to the deterioration of the equipment, then the depreciation increases more rapidly than otherwise and may approach the straight-line basis, as shown later.

"EQUAL-ANNUAL-PAYMENT" SCHEME FOR COMPUTING RETIRANCE

An ingenious and scientific plan has been developed by Frederic P. Stearns for his engineering practice. (The simpler elements were discussed in 1914, in the progress report of the special Committee of the American Society of Civil Engineers on Valuation for Utility Rate Making.) It may be regarded as a modification of the straight-line plan, but with the annual allowances fixed in such a way that the aggregate of dominant factors in rates would tend to be constant year after year.

The calculations leading to equal annual fixed charges in the preceding example were spoken of as "sinking-fund computations." They follow the standard sinking-fund tables as to the amount of depreciation in the property at the beginning of the twenty-fifth year, though the amount of retirance adopted for the twenty-fifth year is not the sinking-fund annuity but the increase in the amount of the sinking fund during the year, consisting of annuity plus interest accumulations. When the sinking-fund computations are used in this way, the equal-annual-payment scheme of compensating for depreciation is evolved. As each year's retirance by the equal-annual-payment plan is equal to the annuity under the sinking-fund plan, plus the amount of the interest accumulations of the sinking fund during the year, the larger sum thus represented by the equal-annual-payment plan is the sum which the company is entitled to earn as an offset to the depreciation of its property to keep investment intact.

It may seem at first that the equal-annual-payment plan, providing as it does a larger retirance for each year after the first than the annuity of a sinking fund, would be opposed to the interests of the rate payers and would give larger earnings to the company. This, however, is not the case when both systems are applied in an equitable manner. The company should be permitted to earn a retirance equivalent to the amount of depreciation; and if the retirance is figured to be the inadequate sum represented by the sinking-fund annuity alone, there must be a further allowance from the rate payers to cover the interest accumulations of a sinking fund during the year. As shown already, it commonly masquerades with interest on full undepreciated value of plant. The assumption, contrary to the facts, that the property has not depreciated in value, is wholly for the purpose of making up for the inadequacy of the retirance when it is assumed to be equal to the sinking-fund annuity alone.

By the equal-annual-payment plan substantially the same results can be secured as with the sinking-fund annuity and full-value scheme—but quite in harmony with the Knoxville decision. The equal-annual-payment plan will be seen to be the simplest case of what the writer has called for convenience a group of "concave-curve" plans all closely related to it and all springing out of complicated practical conditions discussed in a later paragraph.

Retirance, figured by this plan, is declared not to be in any sense a reserve. It is an immediate and direct compensation for property value lost by deterioration and liability incurred for retirement of equipment. The retirance is immediately available for canceling obligations or, what is equivalent, for reinvestment in replacements, additions, improvements, etc. When retirances are so reinvested they enter rate-basis worth on a par with extensions paid for by fresh accessions of capital.

Interest is allowed only on the diminished worth (unreturned investment) of each item; where the retirance sums are reinvested, those new property items so purchased earn like all the other items, and retirance is collected each year for them also. Obviously, the annual interest on unrepaid investment in each item of property goes down steadily, but the retirance aggregate goes up correspondingly. The annual payments for retirance and interest on continuing investment then can have a constant annual aggregate when the rate of interest and the rate for retirance computations are the same.

DEPRECIATION UNDER INCREASING OPERATING COSTS

Where the cost of operation goes up materially because of the deterioration of the equipment, then of course the equalization of annual fixed charges alone is not a proper criterion. Rather it would appear to be proper to hold that the sum of fixed charges and of operation-cost increase should remain constant. Under these conditions the real depreciation may more nearly approach the unmodified straight-line apportionment. It may disclose a depreciation more rapid than that given by the straight-line scheme for the length of life first assumed to hold.

For instance, take the case of a small water-works pump. Suppose that it was a new departure in design and was expected to have a life of 10 years; suppose that in service it was found that slip and increased friction increased the cost of operation $4 each year. (This is a hypothetical situation purposely taken for illustration.)

To find the actual depreciation under these conditions, the capitalized excess cost of operation is deducted from the figures for nominal value and considered as repaid to the investor. The remaining value is repaid during the 10 years according to equal-annual-payment plan; the depreciation (and the retirance) is the sum of each year's capitalized excess cost and the other annual factor. The computations are shown in the accompanying tables.

When the output has decreased with age, the unit cost has increased. The multiplier is the reciprocal of the decreased capacity—if the output is only 0.9 of the initial then the unit cost is 1.11 times the initial value. The total cost of the original output, if the deficiency was made up by other machines of similar type, would be increased by use of the same multiplier; that is, an excess cost results which can be studied exactly as was the extra cost of operation. If the annual operating expense of the hypothetical pump already noted was, say, $800, a gradual drop of capacity, without increase of gross operating expense, to 95.3% in these 10 years would mean an increase in excess cost of 5%, or $40. Table 2 therefore applies.

TABLE 1. ANNUAL RETIRANCE AND FIXED CHARGES BY THE EQUAL-ANNUAL-PAYMENT PLAN

End of Year	Diminished Value	Interest	Annual Retirance (or Deprec'n Increment)	Aggregate Retirance (or Depreciation)	Interest plus Retirance
0	$1,000 00				
1	924 13	$60 00	$75 87	$75 87	$135 87
2	843 71	55 45	80 42	156 29	135 87
3	758 46	50 62	85 25	241 54	135 87
4	668 10	45 51	90 36	331 90	135 87
5	572 32	40 09	95 78	427 68	135 87
6	470 79	34 34	101 53	529 21	135 87
7	363 18	28 26	107 61	636 82	135 87
8	249 10	21 79	114 08	750 90	135 87
9	128 18	14 95	120 92	871 82	135 87
10	....	7 69	128 18	1,000 00	135 87

TABLE 2 ANNUAL RETIRANCE AND FIXED CHARGES FOR EQUAL FIXED-AND-EXCESS COSTS: RISING OPERATING EXPENSE OR DECREASING CAPACITY

End of Year	Excess Operating Cost	Total Capitalized Excess Repaid	Sinking-Fund Increment	Annual Depreciation or Retirance	Aggregate Retirance or Depreciation	Diminished Value	Interest on Value	Retirance, Interest and Excess Cost
0	.....	.....	.....	.....	.....	$1,000.00		
1	$4 00	$66 67	$25 29	$91 96	$91 96	908.04	$60 00	$155 96
2	8 00	133 33	26.81	93 48	185 44	814.56	54 48	155 96
3	12 00	200 00	28 42	95 09	280 53	719.47	48 87	155 96
4	16 00	266 67	30 12	96 79	377 32	622.68	43 17	155.96
5	20 00	333 33	31 93	98 60	475 92	524.08	37 36	155 96
6	24 00	400 00	33 85	100 52	576 44	423.56	31 44	155 96
7	28 00	466 67	35 88	102 55	678 99	321.01	25 41	155 96
8	32.00	533 33	38 03	104 70	783 69	216.31	19 26	155.96
9	36 00	600 00	40 31	106 98	890 67	109.33	12 98	155.96
10	40 00	666 67	42 73	109 40	1,000 07	—0.07	6 56	155.96

TABLE 3. ANNUAL RETIRANCE AND FIXED CHARGES FOR EQUAL FIXED-AND-EXCESS COSTS: INCREASING OPERATING EXPENSE WITH DECREASING CAPACITY

End of Year	Excess Cost	Total Capitalized Excess Repaid	Annual Depreciation (or Retirance)	Aggregate Retirance	Diminished Value	Interest on Value	Retirance, Interest and Excess Cost
0	.....	....	....	....	$1,000 00	....	....
1	$8 00	$133 34	$133 34	$133 34	866 66	$60 00	$201 34
2	16 00	266 66	133 34	266 66	733 34	52 00	201 34
3	24 00	400 00	133 34	400 00	600 00	44 00	201 34
4	32 00	533 34	133 34	533 34	466 66	36 00	201 34
5	40 00	666 66	133 34	666 66	333 34	28 00	201 34
6	48 00	800 00	133 34	800 00	200 00	20 00	201 34
7	56 00	933 34	133 34	933 34	66 66	12 00	201 34
8	64 00	1,066 66	66 66	1,000 00	0 00	4 00	134 68
9	72 00	1,200 00	....	....	....	0.00	....
10	80 00	1,333 34	....	....	....	....	....

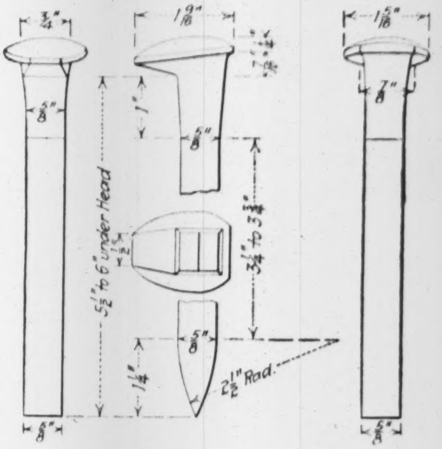
Should the two actions be combined, then the result would be as in Table 3. The only change over Table 2 is that caused by doubling the excess cost, and capitalized excess cost. This amounts to the original cost of the $1,000 item by the eighth year, so that there is no need of attempting to retire the item by introducing any equal-annual-payment-plan factor.

In theory the excess costs may rise less regularly than shown, but attempts to find how they go probably are no closer estimates than assuming a uniform increase.

New Track Spike

The modified design of cut spike or drive spike for railway track, shown in the accompanying drawing, has been proposed by a committee of the American Railway Engineering Association in connection with its standard specification for spikes.

In this design, as described in the "Proceedings" of the Association for 1916, the head is designed to take the blow of the hammer directly over the axis of the spike, and thus minimize the damage to spike heads and the danger of breaking off the head during very cold temperatures. The tilting downward of the nose gives a stronger construction, and assists in giving an easier clearance in making the spike. It also permits the pulling of the spike more readily with the clawbar.



IMPROVED DESIGN OF TRACK SPIKE

The reinforcement is symmetrical. That on the back of the neck was used originally (as it now is with many roads) to force the spike forward against the base of the rail when driving. The reinforcing of the front of the neck is in order to give additional metal to withstand rail wear and necking of spikes.

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The Cost of Railway Passenger Terminals in large cities is emphasized in an argument made by Henry W. Bikle, Assistant General Counsel of the Pennsylvania R.R., before the Pennsylvania Public Service Commission on Nov. 24, in the matter of fares for suburban passengers entering Broad St. station, Philadelphia. The railroad proposed to establish a minimum rate of 10c. per passenger for 50-trip tickets to all stations within seven miles of the Broad St. station. Mr. Bikle stated that the actual cost of handling each passenger at Broad St. station, without taking into account any haul over the road, or any interest on the railroad company's investment in the property, has been found to be 8c. In addition to this cost of handling the passenger in the terminal, there must be added the cost of operating the road through the suburbs. Short-distance commuters using the Broad St. station ride over some of the most costly stretches of railroad in the world. Portions of these lines represent investments of millions of dollars per mile, because they are built in the heart of a great city where rights-of-way are expensive and construction most difficult and costly. Travelers who use such expensive stretches of track should in fairness pay somewhat higher rates per mile for the service than those carried over track which represent ordinary expense. In the handling of suburban traffic also there is a great deal of empty car movement necessary. A suburban train leaving Philadelphia, for example, must have cars enough to accommodate the passengers who wish to ride to the nearest station. These cars even though half filled or empty, however, must be hauled to Paoli or Westchester, as it is not feasible from an operating point of view to drop off cars en route.

New Municipal Dock at St. Louis

The City of St. Louis recently awarded a contract for the construction of the first section of a municipal dock to be built at the foot of North Market St. Aside from being one of the first large municipal docks on the middle Mississippi, there are a number of unusual features in connection with the location and construction.

At the point where the dock is to be built the harbor line is a considerable distance out from the present shore line, so that all the construction must be done in water.

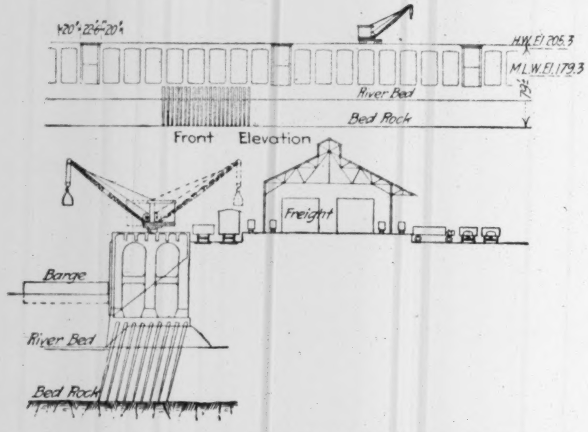

FIG. 1. GENERAL LAYOUT OF CONCRETE DOCK FOR MUNICIPAL DOCKS AT ST. LOUIS

The range of water in the Mississippi is about 42 ft., and the dock had to be designed for satisfactory operation at all stages within these limits. The main features of the design are shown on the accompanying drawing, which is taken from the plans.

The general characteristics of the dock can best be described by the consecutive order of steps that will be taken during construction. Plank mattresses will be woven on a barge held in place by cables, and sunk by weighting down with riprap. Foundation piles will be driven at a batter of 2½ in. horizontal to 12 in. vertical, which will place them parallel with the resultant of the weight and bank pressure, thereby eliminating all tendencies of the dock to slide forward toward the river. The tops of the piles will stop at zero stage on St. Louis gage.

As the river bed at the dock site is about 12 ft. below zero, the upper 10 ft. of the foundation piles will be surrounded by heavy riprap, extending up to 2 ft. below zero on the gage, and leveled off on the top to receive a monolithic slab of concrete 4 ft. thick, covering the entire area of the dock site.

On top of this footing slab the dock structure will consist of a reinforced-concrete viaduct 36 ft. wide, 40 ft. high, bents 20 ft. c. to c., spans T-beam and slab construction. At the back or land side of the dock wall a curtain wall or concrete bulkhead will extend down 12 ft. below the dock floor for the entire length of the structure, and below that the fill behind the dock wall will be permitted to slope under the dock to meet the footing slab at the water's edge. This slope will be heavily riprapped.

On the dock there will be placed eight 80-lb. T-rails, each rail spaced a standard gage distance of 4 ft. 8½ in. from the next rails, in order that locomotive cranes or cars may be placed in any one of a number of positions on the dock floor. Although a locomotive crane is shown on the plan, that is intended as merely the beginning of the equipment to be provided. The rails in the dock floor will be arranged to accommodate overhead traveling gantry cranes, as well as locomotive cranes, and in addition the dock structure will permit the installation of numerous vertical elevators and inclined conveyors under the dock floor.

As now designed the structure will be built of five units each 160 ft. long with spaces about 22 ft. wide between the units. In these four spaces there will be installed elevators about 18 ft. wide and 25 ft. long, with a capacity sufficient to handle the largest automobile trucks from street level to boats, or vice versa, in addition to which, of course, the elevators can be used for many other purposes.

Attention is now being given to the suggestions of some steamboat men that additional elevators be installed in the dock face at intervals of 60 ft. instead of 180 ft. as now contemplated.

The dock wall is the cheapest permanent structure that has yet been considered. For a length of 890 ft. a bid of $187,250 was received—that is, about $205 per lin.ft.—which, however, includes the cost of two timber dikes and a timber fender, so that the actual cost of the concrete structure will be considerably less than $200 per running foot.

This does not include the filling or tracks for warehouses behind the dock, which will be accomplished by other contracts and arrangements. It is proposed to get as much fill as possible by sedimentation from the river, induced by temporary dikes that will be constructed above the dock, and to get as much fill as possible on top of that sedimentation from the city refuse.

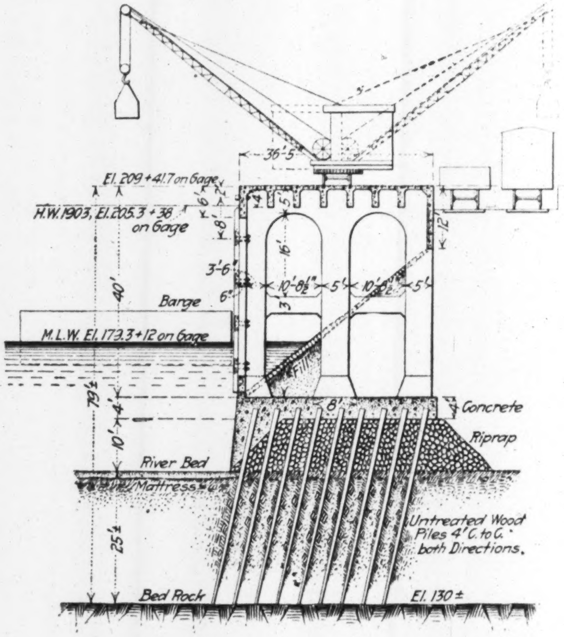

FIG. 2. DETAILS OF DOCK WALL AT ST. LOUIS MUNICIPAL DOCKS

This work is to be done under J. A. Hooke, Director of Public Utilities for the City of St. Louis. C. E. Smith, of St. Louis, is Consulting Engineer for the Department of Public Utilities.

Street-Railway Track Without Spikes or Bolts

A street-railway track in which no spikes or bolts are required as fastenings has been introduced by the United Railways Co., of St. Louis, Mo., in the reconstruction of the Grand Ave. line between Lafayette Ave. and Arsenal St. The new track (of 4-ft. 10-in. gage) has 6-in. 100-lb. T-girder rails on steel ties 6 ft. 8 in. long, weighing 100 lb. each and embedded in concrete. These are spaced 4 ft. c. to c., with an extra tie at the joints, which are laid opposite. The joints are welded electrically. The track is paved with granite blocks grouted with cement. Information as to this track construction has been furnished to us by C. L. Hawkins, Engineer of Maintenance-of-Way, United Railways Co.

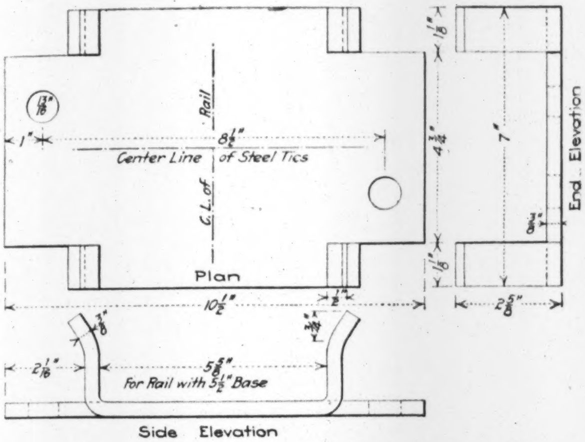

FIG. 1. STEEL TIE-PLATE WITH LUGS TO BE HAMMERED DOWN ON THE RAIL AS FASTENINGS

The ties are of the Carnegie type, of H-section, and each has riveted to its top flange a pair of Vaughn steel tie-plates 7x10½ in. This work is done at the railway company's shops. The plates, shown in Fig. 1, are of soft steel, ⅜ in. thick. At each corner the plate is slit, and the strips are bent upward, forming four upstanding lugs 1⅛ in. wide and about 2 in. high. When the rail is in place, these lugs are hammered down upon its base. Fig. 3 shows how this is done, a spiker with ordinary spike maul striking another maul that is held on the lug. A third man holds up the tie with a bar in the usual way.

Since 1912, these tie-plates and fastenings have been used on white-oak ties with 100-lb. T-rails (A. R. A. section) in paved track with concrete foundation. On some pieces of track where the paving was not laid the exposed tie-plates and fastenings appear to be as tight as when placed originally. On sections of track opened for installing special work, etc., the rails are found to be tight, and the condition of the pavement in general indicates that there is no appreciable loosening. The specifications require that a plate or specimen must bend 180° cold, flat upon itself, without cracking on the outside of the bend.

To make room for the new steel ties, alternate wood ties are removed. Many of these are pulled out when the old rails are broken with a rail-breaking machine. Mr. Hawkins states that in a large amount of repair work which has been done on the old track, the old hook-head spikes were removed and screw spikes installed to prevent the vibration of the rail and the destruction of the pavement. Almost all the ties where screw spikes were used are removed when the rail is broken. Other ties are removed by picks and bars.

To assist in the removal of ties, holes are drilled with compressed-air drills on one side of the ties that are to be removed, and small charges of dynamite are placed in these holes. These are fired after a flat-car provided with hanging sideboards reaching to the street pavement has been pulled over the holes to be fired. This dynamiting loosens the concrete so that the labor required for the entire removal is greatly reduced.

On some other work done during 1916, trenches were cut in the concrete (between the old wood ties) to receive the steel ties. Fig. 2 shows the concreting train used in the reconstruction work described above. To reduce the traffic over this work, the cars of some routes were turned back on reaching Grand Ave.

The old track laid in 1907 had 112-lb. 9-in. Trilby grooved-girder rails on cypress ties 6x8 in., 6 ft. 8 in. long, spaced 2 ft. c. to c. on a concrete base. Steel tie-plates were used, and the rails were fastened with hook-head spikes, while tie-rods were placed at intervals of 6 ft. Cast-weld rail joints were used, and the tracks were paved with granite blocks.

As to the durability of ties embedded in concrete, the cypress and oak ties taken out of the concrete track foundations laid at various places during 1905 and 1906 show that the concrete keeps the ties water soaked. No rotting has been found. Tests made last year on ties to determine the distance from old hook-head spike holes which would be required for satisfactory holding power of screw spikes, showed that the old ties were water soaked. When the spike was pulled out by the testing machine, water was squeezed out of the tie. The ties used on these tests had been taken out of a concreted track (laid during 1906) two days before the test was made.

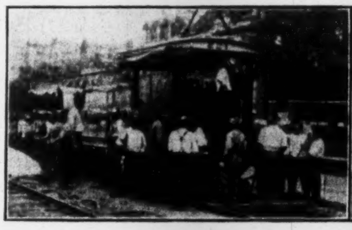

FIG. 2. CONCRETING TRAIN AT WORK ON ST. LOUIS RAILWAY TRACK

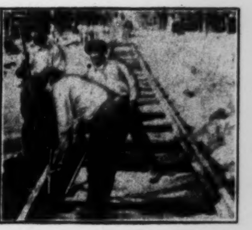

FIG. 3. HAMMERING DOWN TIE-PLATE LUGS

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Reinstatement of Three Boston Engineers in the Public Works Department of that city has been given further support by the action of a State Supreme Court Judge who has confirmed the reinstatement order of the lower court. It is expected that Mayor Curley will appeal to the full bench of the Supreme Court, in which case the final argument will be made in March, 1917. The engineers involved are Frank A. McInnes, division engineer in charge of sewer and water service, Storrs L. Durkee, superintendent permit department paving division, and Bliss W. Robinson, superintendent main drainage system. The decision of the lower court in this case was summarized on p. 45 and commented upon on p. 35 of "Engineering News," July 6, 1916. Of the 14 other engineers removed last January by Mayor Curley nine had been restored to subordinate positions in the city service by midsummer. An account of the decapitation of the 17 engineers was given on p. 193 and editorial comment was published on p. 184 of "Engineering News," Jan. 27, 1916.

Cost Records of Monolithic Brick Pavements

By William Robert Paige*

SYNOPSIS—Detail records are given of organization, material and labor costs on a paving job where the brick was laid directly on the green concrete.

Carefully compiled cost records are an interesting feature of the monolithic brick pavement constructed by the writer at Marshall, Ill., as described in *Engineering News,* Nov. 23, 1916. The construction work was under the direct supervision of the writer, who had full charge of the inspection, and a very accurate account of the labor and materials used was kept each day, together with record of the amount of work done. The figures were carefully compiled and the results tabulated.

In keeping the account of labor costs the work was divided into three parts or sections—the mixing and placing of the concrete base and mortar cushion; the bricklaying, and the slushing or grouting. The overhead charges comprised the pay of a foreman, a timekeeper and a water boy, who were all allowed straight time. The water boy looked after the lights and barricades for the nights and Sundays and was paid for seven days' work. His time was figured for seven days and divided by six working days. The total overhead charges per day were added together and divided by three, charging each section with one-third of the cost.

The usual crew employed in mixing and placing the concrete and mortar cushion was 1 engineman for the mixer, 1 subforeman for placing and leveling the concrete and looking after the grade of the concrete, 4 gravel wheelers, 4 shovelers, 9 on the mixer and 3 mortar mixers. The engineman, subforeman and laborers were paid on a separate scale of wages. The exact time of the men and the number of square yards laid each day were kept. The cost per square yard was determined by the following equation:

$$\frac{E \times e + F \times f + L \times l + C}{Y}$$

= *cost of concrete per square yard for labor*

where

E = Time of engineman in hours per day;
e = Rate of wages per hour paid engineman;
F = Time of subforeman in hours per day;
f = Rate of wages per hour paid subforeman;
L = Total time of laborers in hours per day;
l = Rate of wages per hour paid laborers;
C = One-third of total overhead charges;
Y = Number of square yards of concrete laid per day.

The usual crew for bricklaying consisted of 2 brick setters, 12 brick carriers, 2 rollers, 1 sweeper and 1 batter. The brick setters were paid a different scale of wages from the laborers. The cost per square yard per day for laborers was determined by the following equation:

$$\frac{B \times b + L' \times l + C}{Y'}$$ = *cost of brick laid per square yard for labor*

where

B = Total time of brick setters in hours per day;
b = Rate of wages per hour paid brick setters;
L' = Total time of laborers in hours per day;
l = Rate of wages per hour paid laborers;
C = One-third of the total overhead charges;
Y' = Square yards of brick laid per day.

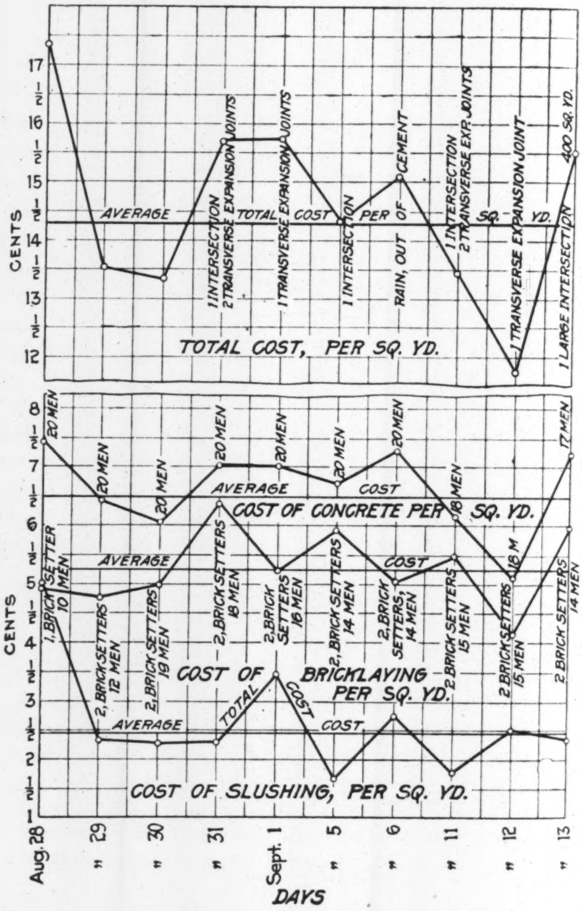

DIAGRAM OF COST OF MONOLITHIC BRICK PAVING AT MARSHALL, ILL.

The usual crew used for grouting was made up from the mixing crew or the brick crew. The cost of grouting was:

$$\frac{L'' \times l + C}{Y''}$$ = *cost of grouting per square yard for labor*

where

L'' = Total time of laborers in hours per day;
l = Rate of wages per hour paid laborers;
C = One-third of the total overhead charges;
Y'' = Number of square yards of slushing per day.

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*Civil and Consulting Engineer, Terre Haute, Ind.

The actual time used in spreading sand over the completed pavement was also kept; but this time being small, the cost per square yard was determined for the whole amount of the pavement.

The results obtained on West Main St. are graphically presented in the accompanying diagram. The heavy vertical cross-section lines represent the different days, and the heavy horizontal cross-section lines the costs in cents. The lower resultant line shows the cost of grouting per square yard for labor, the next line the cost of bricklaying per square yard for labor, the next line the cost of mixing and laying concrete and mortar cushion per square yard for labor. The upper line represents the total cost of the pavement per square yard for labor. The horizontal line drawn through each curve represents the average cost per square yard for the entire work.

It is interesting to note the fluctuations in the cost of each day's work and to speculate on the probable causes. For instance, the first day's cost for all, except the bricklaying, was the highest. This was due probably to starting the monolithic work, which was entirely new to the contractor and to his men, and it took a greater portion of the day to become accustomed to this new method of laying the concrete. In the bricklaying, however, there was practically no difference in the methods used for monolithic over the ordinary sand-cushion pavement.

The second day the cost of the work was materially decreased, the most difference being in the cost of the slushing. The third day shows a slight decrease in the total cost, there being a slight decrease in the cost of the concreting, and a slight increase in the cost of the bricklaying, with a very slight decrease in the cost of slushing.

On the fourth day the cost increased, this being due to building the first street intersection. It will be noticed that the cost of bricklaying increased more than the other sections. The cost of laying the concrete also increased over the cost of the preceding day, being largely due to the fact that the intersection had to be shaped by hand. It will also be noticed that two transverse expansion joints were placed that same day. On the fifth day the total cost was very slightly increased, the cost of laying the concrete being slightly decreased and the cost of bricklaying being materially decreased, but the cost of slushing materially increased.

On the sixth day another intersection was placed, and the cost of bricklaying increased somewhat, while the cost of laying the concrete and slushing decreased, with the result that the total cost decreased over the preceding day. The day following, the total cost again increased, the cost of concrete and slushing increased, while the cost of bricklaying decreased. The only cause for this was that the work was stopped by rain and by shortage of cement.

On the eighth day another intersection and two transverse expansion joints were laid, with a decrease in the total cost of the pavement, with the bricklaying slightly increased. On the ninth day the total cost of the pavement reached its lowest point, and this is attributed by the writer to the almost perfect organization of the work and also to the fact that there were no intersections laid that day.

The last day the cost increased, due to a very large intersection and to connection with the old pavement. The slushing shows a variation, the cause of which probably was due to using first the mixer crew and then the brick crew.

A summary of the cost of West Main St. is given herewith:

Total number of square yards in the improvement 5,841

Labor Cost	Total	Per Sq.Yd
Concrete base	$379 08	$0 0649
Bricklaying	306 69	.0525
Slushing	142 74	.0244
Sand top	6 38	.0011
Total	$834 89	$0 1429

Since the cost of labor, both skilled and unskilled varies at different times, the writer has compiled the results in time per square yard required for skilled and unskilled labor for the different divisions of the work. This is given in Table 1. The cost records for labor were obtained under very favorable conditions.

A record of the total amount of cement used for the concrete and for slushing was kept each day, and in this way the inspector was enabled to determine whether the correct amount of cement was used in the work. An account of the cement required in slushing was obtained for 4,131 sq.yd., and from this the average amount per square yard for the entire work was determined.

Table 2 gives the total amount of cement used, made up from the daily records, and shows its distribution on different portions of the work. Table 3 gives the quantities of different materials per square yard of paving.

TABLE 1. DISTRIBUTION OF TIME ON BRICK PAVING

Total Paving Laid, 5,841 Sq.Yd.	Total Hr.	Hr. per Sq.Yd.
Concrete Base and Mortar Cushion:		
Laborers	1,346½	0 2305
Engineman	89¾	0 0154
Subforeman	80½	0 0138
Bricklaying:		
Laborers	1,035	0 1772
Brick setter	132½	0 0227
Slushing, laborers	512½	0 0877
Spreading sand	28¼	0 0048
Overhead time:		
Timekeeper	....	0 0171
Foreman	....	0 0171
Water boy	....	0 0171

TABLE 2. RECORD OF CEMENT USED IN BRICK PAVEMENT

	Total Cu.Ft	Cu.Ft. per Sq.Yd.
Slushing, 4,131 sq.yd. of paving	594	0 144
Slushing 5,841 sq.yd. (at 0 144 cu.ft.)	840	0 144
Total used on West Main St. work	4,390	
Used in base	3,550	0 608
Required for 4-in. base of 1 : 6 gravel concrete	....	0 500
Required for ½-in. mortar cushion, 1 : 2	....	0 094
Required for concrete rest under expansion joints, each 24x3 in., 33 ft. long	....	0 004
Total required in base, computed	....	0 598
Excess cement used	58	0 01

TABLE 3. MATERIALS USED PER SQUARE YARD OF BRICK PAVING

	Cu.Ft. per Sq.Yd
Cement in 4-in. base, 1 : 6 concrete	0 500
Gravel in 4-in. base, 1 : 6 concrete	3 000
Cement in ½-in. mortar cushion, 1 : 2	0 094
Sand in ½-in. cement cushion, 1 : 2	0 188
Cement for slushing, 1 : 1	0 144
Sand for slushing ¼-in. top covering	0 188

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The Mississippi River Freight Line, known as the Kansas City Missouri River Navigation Co., organized by the merchants and public spirited men in Kansas City in 1909 to operate a freight line on the Missouri River between St. Louis and Kansas City, handled a tonnage of over 18,000 tons inbound and outbound freight over the municipal wharf in Kansas City the past season. This is an increase of 10% over the inbound freight hauled in 1915 but there was a falling off in outbound freight due to the embargo and freight congestion on Eastern lines. This winter the company is trying an experiment in hauling freight between St. Louis and New Orleans instead of laying up its equipment. So far they have obtained all the freight they could handle. The transportation is done in weatherproof, fireproof steel barges and tow boats, and high-class freight is especially solicited. There is no other freight line on the Mississippi River competing for this class of freight.

Tunneling in Firm Clay with Compressed Air

Using 15-lb. compressed air in firm clay at 76-ft. depth below water and working without a shield, an interesting piece of soft-ground tunneling has been done during the year. Though the tunnel is only 582 ft. long, its shell, or lining, is of mixed construction—concrete-block invert and brick arch, and in a few places mass concrete either with or without reinforcement. For a short portion of the tunnel this lining was laid up inside solid ring-timbering of wooden cants (sawed ring-segments); for most of the length, however, it was placed directly against the clay soil.

The tunnel crosses under the Cuyahoga River on the line of Central Ave., in Cleveland, Ohio, to carry a water main, and was built by the Water Department of the city by force account, under direction of C. P. Jaeger, late Commissioner.

Hazardous conditions surrounded the construction of the tunnel. They made trouble in sinking one of the two shafts, but by wise and lucky selection of the level at which the tunnel was to go through, the tunnel itself was kept out of all difficulties and was completed without serious incident or interruption.

Though the original intention was to excavate the tunnel at atmospheric pressure, compressed air was used throughout. It was not needed to hold out water, as the clay was absolutely tight and no sand streaks were encountered, but the air pressure acted to support the clay face and tunnel excavation until the lining could be placed.

NATURE OF THE CLAY SOIL

Slow squeezing of the clay under the pressure of superincumbent earth and water is a general phenomenon in tunneling in this soil in Cleveland. The rapidity and amount of squeezing vary with the softness or hardness of the clay. In the hardest clay the squeeze is practically negligible, and it has been found possible to let a 10- or 20-ft. length of tunnel and the face stand open, untimbered and unsupported, for days without noticeable change. A slight reduction in hardness, however, allows squeezing of considerable amount—several inches radially inward—to develop in the course of a day or less. Few places of this kind were encountered in the Central Ave. tunnel, and where they occurred the only difficulty produced was that a small amount of extra trimming had to be done when setting the lining blocks or laying up the arch masonry.

The tunnel is shown by Fig. 1 in profile, plan and section, but the drawing fails to show the stagger of the successive rings of lining blocks, which was employed to bond the brick arch to the concrete-block invert. All work was prosecuted from the east shaft.

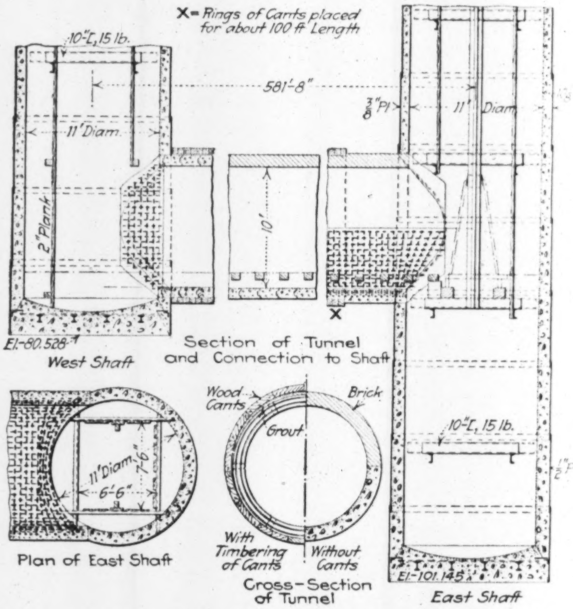
When the shaft was bottomed, an air lock was built on the top of the shell, and the eye of the tunnel was cut through under protection of 20 lb. of air. A small spring was struck near the shaft, but it was readily controlled by piping it to the shaft sump. Later it was grouted through the tunnel shell, starting about 30 ft. away from the shaft and working back.

As the drawing shows, the end portions of the tunnel are of mass concrete, reinforced to hold the nearly straight cheek pieces. Just beyond, the invert was made of mass concrete and the arch of brick; concrete blocks for the invert were not used at this stage because the blocks could not readily be passed into the tunnel through the shaft air lock and there was no erector crane to set them in place.

A lock was built into the tunnel itself at 35 ft. out; the shaft was fitted with an elevator and used thereafter as an open hoistway. The lock was formed by building two timber bulkheads with doors into 5-ft. gaps left in the lining; it had no steel shell, and for resistance to bursting pressure it depended on the bearing power of the surrounding clay. As the work got farther from the shaft, the pressure was held generally at 15 lb., with only occasional raises to 20 lb.

TUNNEL EXCAVATION

The tunnel excavation was handled with semicircular draw-knives, as in all similar work in the Cleveland and Detroit clay regions. An exceptional feature was that a low bench was carried, the 12-ft. face being divided into a heading about 7 ft. high and a bench of about 5 ft. The city's lake tunnel, of the same size, in similar material and under generally similar conditions, is run without a bench.



CENTRAL AVE. PIPE TUNNEL UNDER CUYAHOGA RIVER AND SKETCH OF LINING CANTS

The force at the face comprised two excavators and two muckers in the heading and the same at the bench. Small cars, 1/3 cu.yd., were run on a track extending to the front edge of the finished lining. The muckers carried the slabs of clay cut down by the draw-knives back to this point, loading direct into the cars.

Excavation was ordinarily carried forward to such a length that a 12- or 16-ft. section of lining could be laid up. This would allow a succession of two lining shifts, respectively block laying and bricking.

For the first 100 ft. the excavation was lined with wood cants. These (see the drawing) were made of 6x6 and 4x6 material, to give rings of 6-in. radial thickness. Each is 2 ft. 8¾ in. long outside, sawed out of a stick 6 in. wide and the waste segment spiked on the outside, as indicated in the sketch. Two ⅜-in. holes in each segment provide for spiking to the preceding ring. The wood was yellow pine and maple. A 10-in. spike ⅜ in. square with chisel point was used for the 6-in. cants, and a 7-in. spike for the 4-in. cants. They were driven by pneumatic hammer.

The original plan for the tunnel was based on putting the whole tunnel through at about 100-ft. depth (believed from the borings to be a safe level) without the use of compressed air. The temporary lining of cants was to be put in as the excavation proceeded; the permanent masonry lining was to be laid up in a single operation after excavation was completed. The conditions encountered in sinking the shafts, however, made it seem advisable to provide compressed air in the tunnel and also to line with masonry in short sections, so as not to leave open any long section of excavation. Under these circumstances and as the clay proved very firm and stable, the cants were abandoned after the first 100-ft. portion.

The stability of the clay was well shown at one period in February, 1916, when some difficulty with the bricklayers kept the excavation open two days, in which time the clay showed no squeeze or other trouble. The air pressure during this period was raised from the normal 15 lb. to 20 lb. to give additional support and later was slowly dropped back to 15 lb.

Concrete-Block Lining

The interlocking concrete blocks used for the invert in this tunnel (but used for the entire ring in the city's new West Side lake tunnel) are of a new design, different from other concrete blocks hitherto proposed or used. They were evolved in the city water department under C. F. Schulz, Commissioner and Engineer until 1916. There are six blocks to the ring, or three for the invert of the Central Ave. tunnel. Each block is about 5 ft. long and weighs 1,200 lb.

In laying, the blocks were handled by a light steel erector gantry supporting a chain hoist. When the three blocks of the invert had been set—being held to true position partly by the interlock with the preceding ring and partly by blocking against the tunnel wall—the half-ring was grouted from springing-line level after packing the forward edge of the space between the block and the tunnel wall with clay.

At the end of a block-setting shift the wooden centers for the arch were put up, and the following shift laid the arch brickwork. The latter was carried up tight against the clay roof and sides, to avoid having to pack fill back of the masonry.

Making connection with the west shaft proved comparatively simple in spite of the many possible difficulties in bringing a tunnel under air pressure up against the steel shell of a shaft under atmospheric pressure, with shaft bottom only a few feet below. From a distance of 20 ft. away the tunnel was carried up against the shell of the shaft as a top heading. After the center line of the tunnel had been tied in with the center line of the shaft by resurvey, the bench excavation and the masonry shell of the tunnel were carried forward in very short sections until within about 6 ft. of the nearest point of the shell. Removal of the remaining portion of the bench was done very carefully, and the excavation, as fast as opened up, was lined with wooden cants (set outside the masonry line). The joints of the cants were also flushed with cement mortar so as to make the temporary lining tight against small air leaks while the pressure was kept on. Finally, when the temporary lining was completed up to the shaft shell, the air pressure in the tunnel was slowly reduced to atmospheric without trouble developing. Then the shaft shell was cut through, the concrete shaft lining was broken away, and the reinforced-concrete end section of the tunnel was placed.

Danger from Gas a Factor

The known presence of gas occluded in pockets or disseminated in the clay and the actual striking of a quantity of gas in the east shaft made it necessary to take strict precautions against gas dangers. No open lights, matches or other sources of flame were allowed. A safety lamp (Koehler No. 2) was kept burning in the tunnel to give warning of the presence of gas. The air supply was unusually ample, to minimize the risk of gas accumulation even at the cost of a little extra coal.

John W. Dolman was engineer in charge of the tunnel work. Otto Scholz was in charge of surveys. Charles Vandevelde was superintendent.

The Central Ave. tunnel shafts were started in the fall of 1915. The tunnel was begun about the first of January, 1916, and was connected with the west shaft by the end of June, making six months for the tunnel work itself. On completion of the work, the springs in the bottoms of the two shafts were finally grouted, an operation that after some difficulties was successful. The tunnel at no time developed any leak; as previously mentioned, only the east end was grouted, and this simply because of a spring giving trouble while concreting was going on. The cost of the tunnel work, including shafts, was about $87,000

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The Price of Railway Supplies has increased on the average about 60% during the past year, according to a circular just issued by the New York, New Haven & Hartford Railroad Co. to its employees. The circular enjoins upon all responsible for expenditures the need for the greatest economy in the use of material, and says: "Repairs should be made instead of complete renewals in all cases where practicable, even where under normal conditions it might be better to renew than to repair." The circular is accompanied by the following table showing the percentage increase in price of various important supplies during the 15 months from April, 1915, to July, 1916:

Increases Ranging from 10 to 35%

Acids	47	Files	70
Air hose	38	Fuel oil	42
Angle bars	33	Fuses	33
Antimony (babbitt metal)	42	Gaskets, air-hose	11
Axles, car and tender	48	Nails, wire	61
Axles, driving	30	Pipe covering, all kinds	33
Axles, engine-truck	63	Pipe, galvanized	17
Belting, axle	33	Pipe, malleable	59
Belting, leather	59	Piston rods	15
Bolts, machine and carriage	40	Roofing	17
		Rope, manila	61
Bolts and nuts	67	Sheathing	38
Brass (bar, sheet and spring)	54	Springs, coil	74
		Springs, elliptic	51
Bridge timber	44	Steel, bar	77
Castings, gray-iron	13	Tamping bars	85
Chains, all kinds	62	Tamping picks	26
Claw bars	30	Ties, cross	13
Copper (bar and sheet)	36	Ties, switch	18
Couplers	18	Tires	55
Crankpins	12	Track spikes	77
Drills, all kinds	64	Waste	78
Ferrules, flue	36		

Increases Ranging from 85 to 250%

Castings, brass	107	Steel, structural	91
Castings, steel	107	Steel, boiler	226
Cement	86	Steel, firebox	195
Gasoline	118	Steel, tank	142
Iron, bar	95	Track bolts	115
Journal bearings	89	Tubes, boiler	94
Rivets, boiler	132	Tubes, brass	105
Rivets, structural	140		

Potash Becomes a Valuable Cement-Mill Byproduct

By Arthur C. Hewitt*

The great nuisance of portland-cement manufacture has been converted into an asset of the industry by the Cottrell fume-precipitation process[1]. This was first successfully applied to the suppression of dust at the cement plant of the Riverside Portland Cement Co., in California, but not until about the beginning of the European War was the real value of the recovered dust recognized. The first Cottrell plant built exclusively for the recovery of potash has recently been completed by the Security Cement and Lime Co. at its cement plant near Hagerstown, Md. This precipitation plant will be discussed in the appended paragraphs.

The Cottrell process of dust precipitation is very simple in theory, but somewhat difficult to put into practice. The scheme is simply to pass the dust-laden gases through an intense electrostatic field, where precipitation of the dust takes place upon the positive and negative electrodes of the electric circuit; this is essentially the same thing as takes place when a pith ball attached to the end of a thread is attracted to an electrified piece of rubber or glass. In putting this theory into practice, the difficulties encountered are principally in the generation, insulation and maintenance of the high-powered uni-directional electrostatic field. The insulation of the high-voltage circuit under temperatures ranging from atmospheric up to 1,200° F. is one of the things that calls for special consideration. The material finally used for this purpose is a so-called marble from Catalina Island, off the coast of California; many other materials have been tried, but none have given anything like the satisfaction that this has.

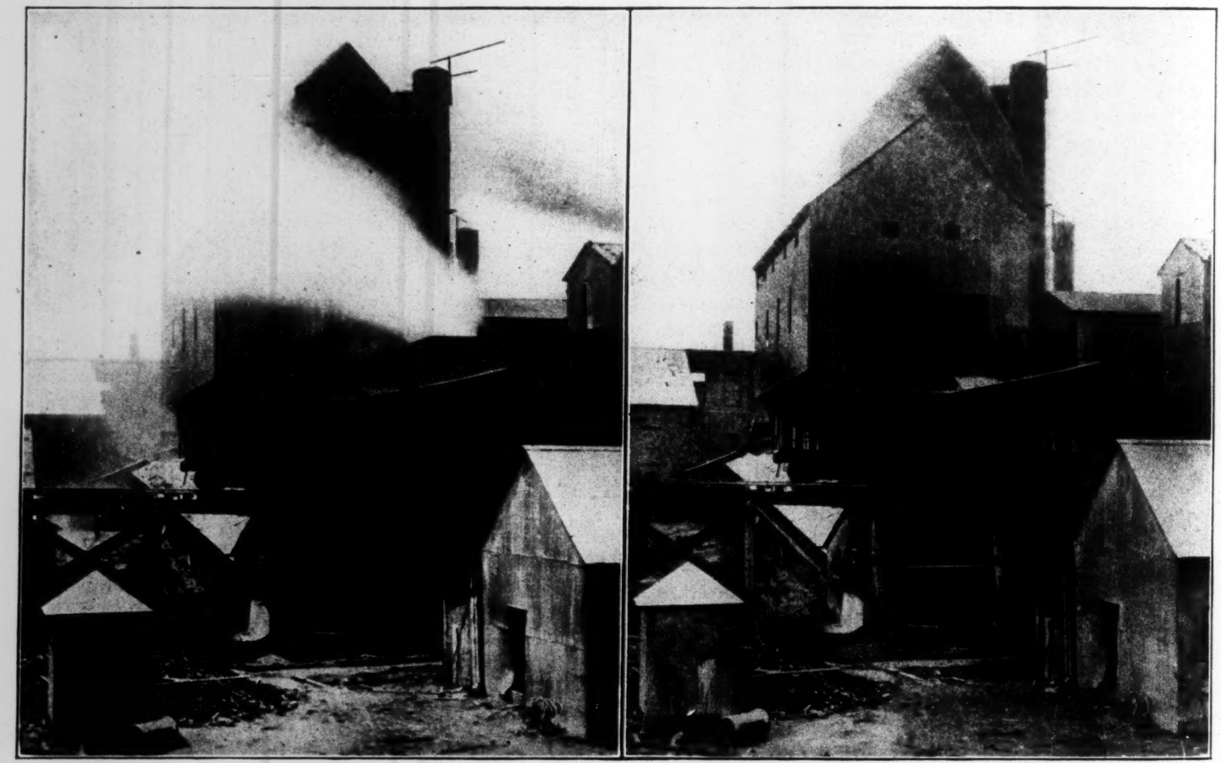

FIG. 1. CEMENT-DUST PRECIPITATION PLANT OF SECURITY CEMENT AND LIME CO.

At the left, kiln gas discharged with current off. At the right, current on; the only evidence of discharged gases is the slight hazing of the view of treater building and gooseneck flues

In the first studies the electrodes were plates between which the dust-laden gases passed, but these have been superseded by pipes with central wires. The pipes extend from a top header, which is the floor of an upper receiving chamber into which the kiln stacks discharge, to a lower header, in which is the ceiling of a chamber from which the cleaned gases are led off. Dampers control the entrance of gases to all or either half of the pipes, so that the idle electrodes may be periodically cleaned of the accumulating dust. For this both pipes and wires are mechanically rapped. The dust falls down into hoppers from which it is drawn into bags.

In November, 1915, John J. Porter, vice-president and general manager of the Security Cement and Lime Co., had experiments, tests and analyses made to determine what economic results might be secured if a Cottrell plant were installed at the Hagerstown cement mill. The results were so promising that in December, 1915, the directors sent Mr. Porter to California to study the Riverside plant first hand. He spent a week there and on his return recommended that the Security company build a similar plant—but purely for the recovery of the valuable potash in the cement dust.

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*Chief Engineer, Security Cement and Lime Co., Hagerstown, Md.

[1] See "Engineering News," Oct. 26, 1911, p. 495; Oct. 31, 1912, p. 803; Oct. 9, 1913, p. 716.

The directors accepted his report, and negotiations were begun with the Western Precipitation Co., owner of the patent rights for use of this process in cement plants. The plans were rushed through, the markets for material studied and the contract signed Feb. 8, 1916. The final drawings were received Feb. 23 and the contracts for steel and equipment let in the next few days. It was desired to push the work with all possible speed to secure maximum benefit of the war prices on potash but many construction difficulties had to be overcome, as noted later. The first trial run of one unit commenced June 15, and the other three units were completed by the middle of July.

DESIGN OF SECURITY PLANT

The accompanying views and sketches show the general layout and more important details. It will be noticed that there are four treaters being used to precipitate the dust from five kilns. This is because two of the kilns are smaller than the others, and the gases from the two small ones are combined in a common flue. The large stacks connecting with the treaters are 7 ft. in outside diameter and are lined with 4-in. of firebrick to a point just below the Y-connection.

The treater building is 72x36 ft. over all in plan and 76 ft. high. In this building there are approximately 200 tons of steel; 50,000 rivets and 30,000 bolts were used in field erection alone. Practically the whole treater building is made up of light-weight angles and 10-, 12- and 16-gage plates. The treaters were designed for a gas velocity through the electrode pipes of 3.5 to 4 ft. per sec.

Louver dampers extend across the intake chambers at right angles to the roof, so that one-half of each unit can be closed off for shaking down the collected dust into the hoppers. The dampers are operated by compressed-air cylinders controlled from the ground level. The hoppers are connected by cross-passages to a longitudinal chamber of much the same general shape as the hoppers. Flop dampers (worked by compressed air) close off the connection from the hopper of each half-unit when the tubes are dropped down.

The flue connecting the treaters and the fans was made as cheaply as possible by using a wood frame with No. 25 gage black-steel sheets nailed on the inside of the frame. Strips of asbestos paper insulate (for heat) the steel from the wood frame. The space surrounding the fans was housed with a wood-frame corrugated-iron-covered building. This space is used for storing the potash dust while analyses are being made prior to shipment.

The electrode pipes were made of 16-gage steel and have loose flanges put on in the field, after which the pipe ends were hammered over the flanges. By bolting to the crown sheet, the tube and the sheets are brought into direct bearing. The electrode pipes, in addition to being held together by the upper and lower header plates, are fastened together in pairs by means of an iron plate bolted to T-bars that are riveted to the pipes, as shown. Swinging hammers hang so that, when swung by rods from a lever on the ground floor by the operator, they strike these iron plates and shake the precipitated dust loose from the interior of the pipes. Some of the flue dust, it is found, accumulates on the wire electrodes, although these are the positive electrodes. This is removed by occasional rapping. The hammer mechanism may be seen in Fig. 3: it consists of a cast-iron cylinder, chain-hung from a hand lever on the upper inspection platform. The connection between the lever and high-tension frame is made through a paraffined-maple stick insulator.

The central wire electrodes are suspended from a pipe frame above. This frame rests on Catalina marble insulating supports, as shown in Fig. 3. The wires have to closely approximate their central position at all times, and to this end they are guided by each passing through a sleeve in a light steel frame grid that rests on the weights attached to each wire. As shown in Fig. 3, this frame is allowed free vertical motion by being guided by a crossbar supported on Catalina marble slabs.

A novel scheme was employed to secure even distribution of gas through the electrode pipes; 2x2-in. angles were laid loose, corner up, across the 3x3-in. angle frame extending across the floor of the inlet chamber above the high-tension frame for the wire electrodes.

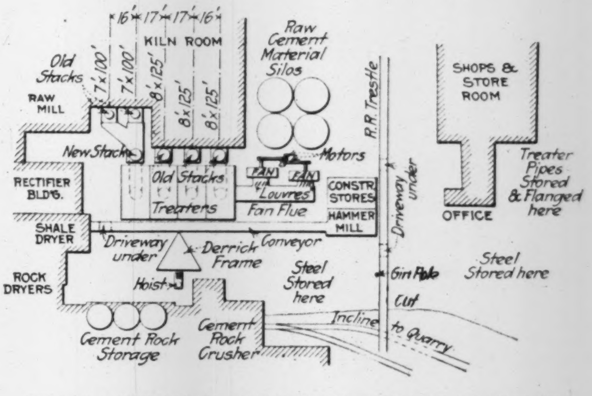

FIG. 2. GENERAL LAYOUT OF POTASH PLANT IN SECURITY MILL

A reinforced-concrete structure, 33x40 ft. in plan and 20 ft. high, was built for housing the electrical machinery and is known as the rectifier building. Here are housed all the transformers, rectifiers and switching apparatus for the entire potash plant.

The electrical equipment consists of two 7.5-hp. 5-kw. motor-generator exciter sets; four 15-hp. 10-kv.-a. 220-volt single-phase 60-cycle 1,800-r.p.m. motor-generator sets, each directly connected to the shaft of a rotary rectifier; four 220- to 70,000-volt 60-cycle 10-kv.-a. transformers of special construction; and all necessary switchboards and accessories.

The scheme of operation in the rectifier building is as follows: The power supply is 440-volt three-phase 60-cycle current; this comes in through a meter on a distributing switchboard and is used to drive the exciters, motor-generator sets and fans. Each of the four units of the treater is supplied from its own individual motor-generator, transformer and rectifier. The motor is driven by the 440-volt current, and the coupled generator produces 220-volt 60-cycle single-phase current that goes to the transformer, where it is stepped up to 70,000 volts. From the transformer the 70,000-volt leads go direct to

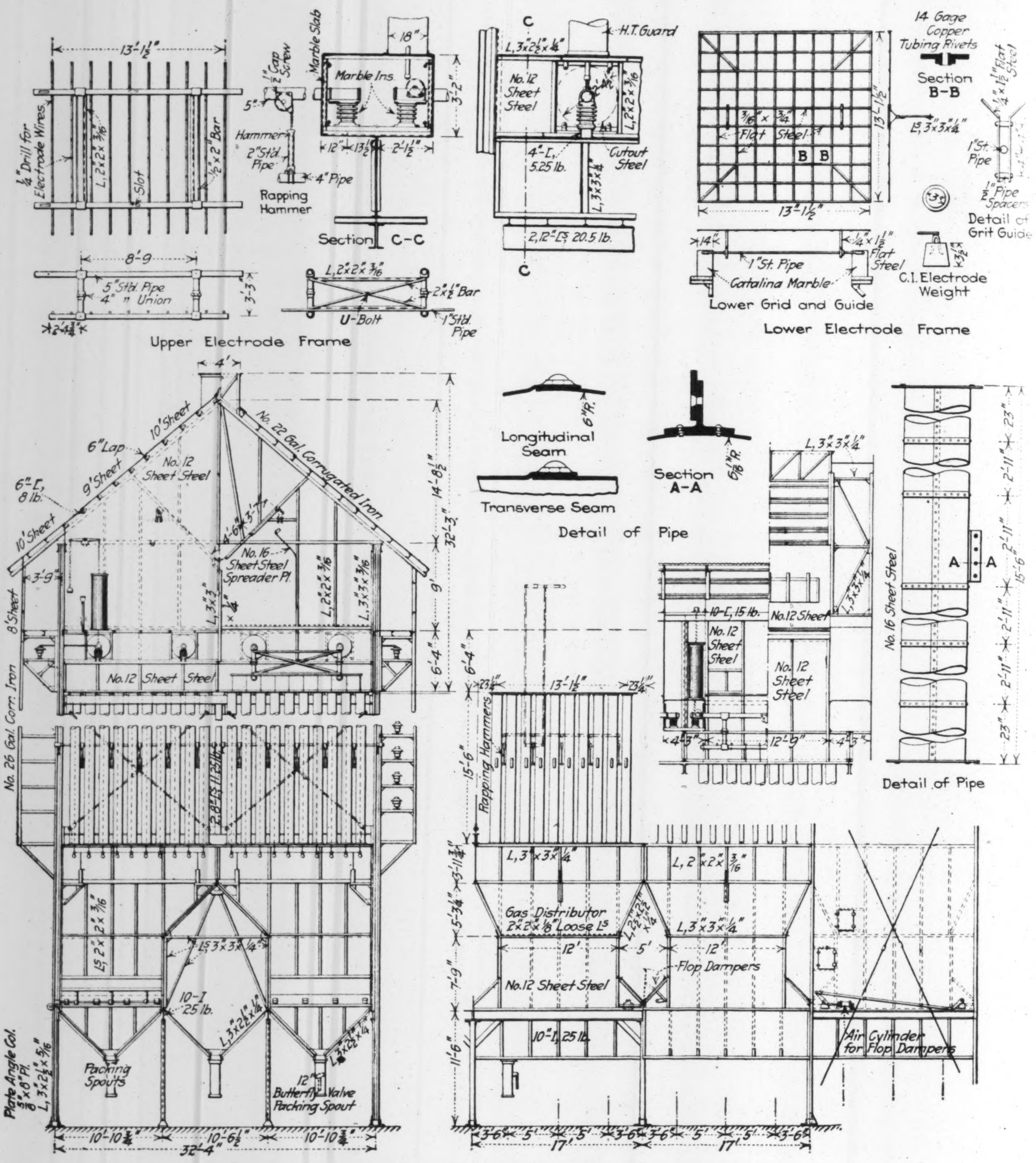
13'-1½"
¼" Drill for Electrode Wires
L, 2×2×3/16
Slot
½"×2" Bar
8'-9
5" Std. Pipe
4" " Union
3'-3
2'-4½"
Upper Electrode Frame
½" Cap Screw
Marble Slab
18"
Marble Ins.
3'-2"
Hammer
2" Std. Pipe
4" Pipe
Rapping Hammer
12" 13½" 2'-1½"
Section C-C
L, 2"×2"×3/16"
2"×½" Bar
U-Bolt
1" Std. Pipe
C
H.T. Guard
L, 3×2½×¼"
No. 12 Sheet Steel
L, 2×2×3/16
4"-[, 5.25 lb.
Cutout Steel
L, 3×3×¼
2,12"-[s 20.5 lb.
C
3/16"×¾"
Flat Steel
B B
13'-1½"
13'-1½"
14"
¼×1½" Flat Steel
1" St. Pipe
Catalina Marble
Lower Grid and Guide
14 Gage Copper Tubing Rivets
Section B-B
Ls, 3×3×¼"
1" St. Pipe
½" Pipe Spacers
¼×1½" Flat Steel
Detail of Grit Guide
C.I. Electrode Weight
Lower Electrode Frame
4'
6"-[, 8 lb.
10' Sheet
6" Lap
9' Sheet
10' Sheet
No. 12 Sheet Steel
No. 22 Gal. Corrugated Iron
No. 16 Sheet Steel Spreader Pl.
L, 3×3×¼
L, 2×2×3/16
L, 3×3×3/16
3'-9"
8' Sheet
No. 12 Sheet Steel
14'-8½"
32'-3"
9'
6'-4"
No. 26 Gal. Corr. Iron
2.8 Ls 11.25 lb.
Ls 2×2×3/16
Ls 3×3×¼
10-I 25 lb.
L, 3×2½×¼
Packing Spouts
12" Butterfly Valve Packing Spout
Plate Angle Col. ⅜"×8" Pl. L, 3×2½×5/16"
10'-10¾" 10'-6½" 10'-10¾"
32'-4"
Longitudinal Seam
Transverse Seam
Section A-A
Detail of Pipe
L, 3×3×¼"
10-[, 15 lb.
No. 12 Sheet Steel
No. 12 Sheet Steel
No. 12 Sheet Steel
4'-3" 12'-9" 4'-3"
6'-4"
23¼" 13'-1½" 23¼"
Rapping Hammers
15'-6"
L, 3"×3"×¼"
L, 2"×2"×3/16"
Gas Distributor 2"×2"×⅛" Loose Ls
L, 2×2×¼
L, 3"×3"×¼"
12' 5' 12'
Flap Dampers
No. 12 Sheet Steel
10"-I, 25 lb.
Air Cylinder for Flap Dampers
3'-11¾"
5'-3¾"
7'-9"
11'-6"
3'-6 5' 5' 3'-6 3'-6 5' 5' 3'-6
17' 17'
No. 16 Sheet Steel
A A
23" 2'-11" 2'-11" 2'-11" 2'-11" 2'-11" 23"
15'-6"
Detail of Pipe

FIG. 3. DETAILS OF POTASH PLANT CONSTRUCTION

Security Cement and Lime Co., Hagerstown, Md.

the connection on the rectifier. The bottom connection to the rectifier is grounded (as is also all exposed metalwork in the building). From the top connection on the rectifier a wire goes toward the ceiling to a disconnecting switch. From this switch a line goes to the north end of the rectifier building, where are located high-tension switches so connected that it is possible to connect or disconnect either or both sides of any individual treater. All disconnecting switches are equipped with grounding clips, so that when the switches are open, the dead side is automatically grounded.

Throughout, on all the high-tension circuits 70,000-volt four-petticoat pin-type porcelain insulators are used. Inside the rectifier building ⅜-in. pipe is used for all high-tension lines.

From the distributing panel in the rectifier building a three-phase 440-volt circuit is taken to the north end of the treater building to operate the two fan motors. The fans were rated as taking 26 hp. each when operating at full rated load, and 35-hp. variable-speed (600 r.p.m. synchronous speed) motors were installed. Each fan is belted direct to its driving motor. The fan wheels are Siroccos, 10½ ft. in diameter by about 4 ft. wide. The fans each have a full-load rating of 100,000 cu.ft. per min. (temperature, 800° F.) at 125 r.p.m. when working against a suction of 0.5-in. water head. In addition to being able to control the speed of the fans, louver dampers were placed in the suction side of each fan. The fans have e-vase (expanding) chimneys to reduce the power consumption. The determination of fan capacity could not be made with accuracy because of unknown maximum temperature.

CONSTRUCTION DIFFICULTIES

The contract between the Security and Western Precipitation companies was signed on Feb. 8, 1916. But prior to actual signing the engineers of the Western company had been engaged on the general design, and the writer had been scouting around steel-fabricating plants so that when the plans should be received they might immediately be submitted to shops best able to push the steelwork through at maximum speed. Best results appeared to be probable from Buffalo over Baltimore, Philadelphia, New York and Pittsburgh. Market conditions were extremely bad. The price of raw materials was jumping by leaps and bounds, and it was very hard to get any company to accept a contract to construct the plant in the time desired. It was found absolutely necessary to pay liberal premiums in order to get quick deliveries. Labor conditions also were very bad, and only three days following the signing of the contract for steelwork a strike took place in Buffalo. This, however, was handled admirably and did not seriously delay things.

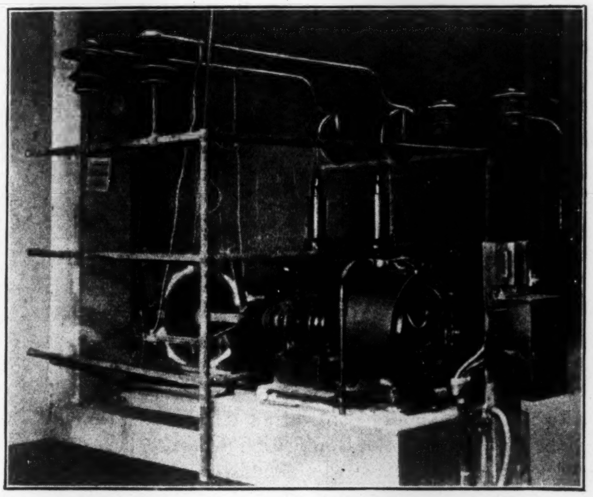

FIG. 4. ONE OF THE MOTOR-GENERATOR TRANSFORMER-RECTIFIER SETS

In operation; the four splashes of light around the rectifier disk are the high tension arcs where the 70,000-volt alternating current is broken in being made unidirectional

It was very difficult to get reasonable deliveries of the special-size 16-gage steel sheets for making the pipes; these had to be rolled specially and shipped from Youngstown to Brooklyn, N. Y., where the pipes were made up. The actual manufacture of these steel pipes (there were 800 of them, 1x15½ ft.) was one of the most difficult pieces of work encountered. They had to be true to diameter and length and be free from projections on the interior surface. It developed that establishments on the Pacific Coast were more fully equipped and more experienced in handling this class of work than were the plants in the East. However, a contract was made with the American Spiral Pipe Works, of New York City; the actual manufacturing of the pipes was sublet to a shop in Brooklyn operating under the firm name of Hindley & Pendleton.

The Security company undertook the construction of the potash plants under the following separate contracts: Excavation, concrete, fans, steelwork, steel pipes, castings, stacks and flues, erection of steel, stacks, dampers, flues, castings and electrode wires, transformers and electrical equipment. The Western Precipitation Co. furnished the design, but shop drawings for the steelwork were made by the Lackawanna Bridge Co., of Buffalo, which concern furnished the fabricated steel. Other details were designed by the Guarantee Construction Co., of New York City, which company erected the steelwork and the various other mechanisms and helped in the purchasing of materials. The electrical equipment was installed by the Spangler Electric Co., of Hagerstown. Excavation, concrete and brickwork were done by W. H. Angle, of Hagerstown. Steel stack and flues were furnished by the N. Y. Central Iron Works, Hagerstown. The entire work was carried on under the direct supervision of the writer.

ERECTION DIFFICULTIES

The difficulties encountered during erection in the field were caused by very limited space both for storing material and erecting. Also, considerable trouble was had with labor because of the dust from the cement plant. On windy days it was very disagreeable, to say the least, for the workmen to stay at their work. Almost ideal weather was encountered, and only a very few days were lost on account of rain.

After one unit was completed and placed in operation, the steelworkers let it be known that they would not work on the other units of the building while 70,000-volt current was being transmitted along its side. However, there were only a few of the men who left the job because of their fear of danger with the current on. In order to protect the workmen from the high-voltage wires, small-mesh wire netting was used for guards surrounding them. Danger signs were placed at every point along the building where there was any possibility of a workman's coming in contact with the wires. The men were all warned personally of this danger and told to keep as far away from the circuits as possible.

From the general layout of the cement mill and potash plant, Fig. 2, it will be observed that a derrick frame and hoisting engine were placed close to the middle of the dust treaters and on the east side. This was a stiff-leg derrick with a 60-ft. boom, and it was placed on a platform 30 ft. above the ground. By means of this it was possible to lift into place almost all the steelwork. It developed before placing the flues on top of the building that the boom of the derrick could not be used for setting them in permanent position, because the derrick frame was too close to the building and, therefore, could not reach over far enough. The cost of erecting the derrick was considerable, but it more than paid for itself. The space available for storage of steel was very small, but proved to be large enough as erection took place about as fast as the material was received.

Before erection was completed, the speed at which the men were worked began to tell upon them; and consid-

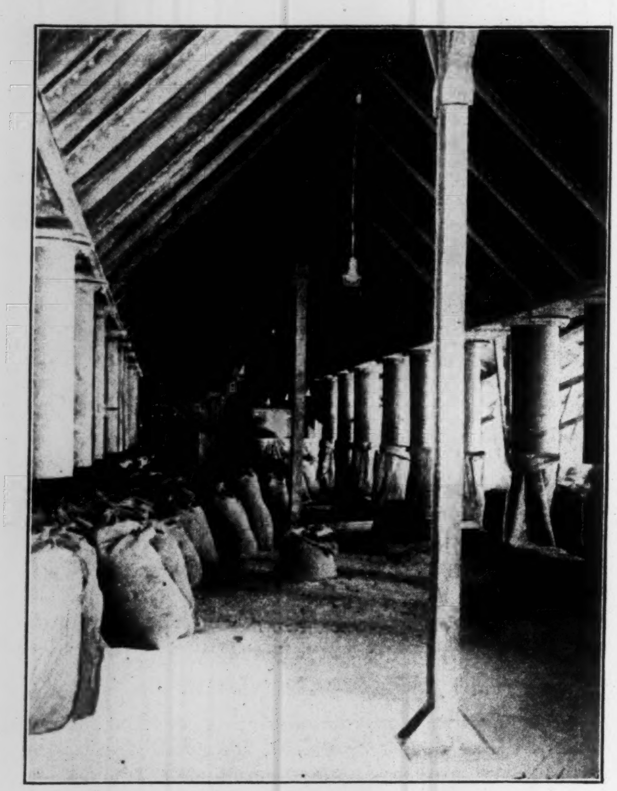

FIG. 5. BENEATH DUST-TREATER BUILDING
Showing method of bagging dust coming through spouts from hoppers

erable trouble was experienced in keeping them at work continuously. The erection crew worked from 10 to 12 hr. a day and 7 days per week, except as the weather interfered. A night crew was used part of the time. Efforts were concentrated upon one unit of the treater, so that operation might be begun at the earliest possible moment in order that the experimental stage, which comes inevitably with any new enterprise, could be covered with one unit while the others were being completed.

POTASH-PLANT OPERATION

The views of the plant in Fig. 1 show the relative appearance of the gases discharged with current on and off. The operation of the plant has been profitable from the beginning, but experiments are still being carried on to determine the exact conditions under which the maximum amount of potash can be produced simultaneously with the maximum production of cement clinker. These experiments have opened up an unlimited field of investigation, which gives every promise of being the means of increasing the production and quality of the cement entirely aside from the production of potash.

At the present time, with two kilns 7x100 ft. and three kilns 8x125 ft., the production of potash dust averages from 20 to 25 tons per 24 hr., containing from 5 to 10% pure K_2O, which is present in the form of potassium sulphate (K_2SO_4) and is equivalent to approximately 10 to 20% of the sulphate. The dust is in a very finely divided state, which is highly desirable for use as a fertilizer. It collects in the lower hoppers of the steel treater structure and is drawn off regularly into burlap bags (see Fig. 5) containing some 100 lb. net. The bags are weighed and sampled before shipment.

The gas volume handled averages approximately 180,000 cu.ft. per min. and 900° F., when measured at the base of the kiln stacks. These figures may be compared with the 100,000 cu.ft. and 800° estimated in advance. A single fan, however, has no difficulty in maintaining draft under this load.

The operating labor required for the plant is a very small item, as one man during the day and one at night are all that are required to care for the treaters and electrical apparatus. A third man acts as general foreman both for the operation of the treaters and packing the material. The labor for doing the bagging is additional. The power consumption for the entire plant averages about 1,000 kw.-hr. per 24-hr. run, and this includes power for precipitation, fans and a small compressor that supplies air for operating dampers, etc.

Some of the factors affecting the successful operation of the plant are: Regularity of shaking down the dust, temperature of gases, fuel analysis and fuel economy for the kiln, rate of flame propagation in the fuel-air mixture, volume and velocity of gases treated, and gas distribution in the electrode pipes.

It has been found that if the dust was not shaken down from both electrodes at regular intervals, but allowed to collect on the wire electrodes, it resulted in burning off the wires and causing short-circuits. Also under certain conditions the dust would form in lumps at nodes on the wires and cause flash-over at those points. This was a very serious difficulty during the early stages of operation; but after the cause was discovered and steps taken to rectify it, no further difficulty was experienced.

The temperature of the gases has been one of the hardest things to control, as the operators of the kilns were not accustomed to watching the kiln pyrometers, which had just been installed. Of late this has been partly overcome, and temperatures have been greatly decreased. This was brought about by reducing the amount of coal fired into the kilns and by controlling the draft at the proper places so as to get the combustion to take place inside of the kiln and not have some unburned fuel carried over into the treaters. It was found that certain kinds of coal burned at a much slower rate than others, and with the slow-burning coal considerable difficulty was had with high treater temperatures. The volume and velocity of gases treated can be controlled to a certain extent. However, this must be watched closely in connection with production of properly burned cement. The proper distribution of gases in the electrode pipes has been brought about by properly balancing draft pressures in the treater by means of distributors made of pieces of upturned angle iron, already noted.

CEMENT PRODUCTION IMPROVED

The effects on the production of cement are very noticeable. The operation of the potash plant has been the means indirectly of increasing the production of cement clinker and also the fuel economy. It has been the means of getting more continuous operation of the kilns because of requiring much better attendance on the part of the kiln operators. This automatically brings about a better quality of cement clinker because, by watching the kilns more closely, the quality of the clinker will be more nearly constant. Moreover, it is found that the best recovery of potash is secured coincident with the best burned clinker.

Binghamton Builds Interceptor with Four River Crossings

By A. L. LaRoche*

The City of Binghamton, N. Y., is building a 4½-mi. 12- to 54-in. intercepting sewer with four river crossings. This is being done to prevent the highly polluted summer condition of the Susquehanna and Chenango Rivers, which join in Binghamton. During dry summer seasons both streams drop to a very low point, and the velocities decrease accordingly. The sewage of the city empties into these rivers through nine separate trunk-sewer systems, and therefore a highly polluted condition has existed in the streams during that part of the year when it would be most objectionable. The work now under construction is intended to prevent pollution of the rivers only when they are in a fairly clean condition. During spring freshets or excessive general storms the rivers already carry a heavy amount of foreign material, which would not be appreciably increased by the addition of the city's sewage.

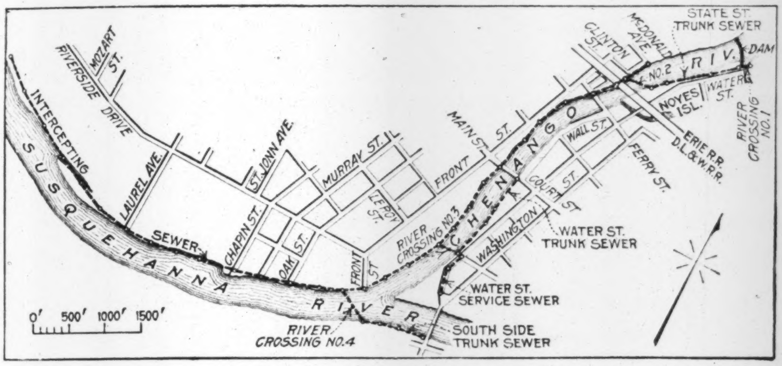
MOZART ST.
RIVERSIDE DRIVE
INTERCEPTING
SEWER
SUSQUEHANNA
RIVER
LAUREL AVE.
ST. JOHN AVE.
MURRAY ST.
CHAPIN ST.
OAK ST.
LE ROY ST.
FRONT ST.
MAIN ST.
FRONT ST.
RIVER CROSSING NO.3
CHENANGO
RIV.
WALL ST.
COURT ST.
WASHINGTON
FERRY ST.
CLINTON ST.
McDONALD AVE.
STATE ST. TRUNK SEWER
DAM
NO.2
NOYES ISL.
WATER ST.
RIVER CROSSING NO.1
ERIE R.R.
D.L.&W.R.R.
WATER ST. TRUNK SEWER
WATER ST. SERVICE SEWER
SOUTH SIDE TRUNK SEWER
RIVER CROSSING NO.4
0' 500' 1000' 1500'

FIG. 1. MAP OF BINGHAMTON INTERCEPTING SEWER

The complete plan contemplates the construction of an intercepting sewer picking up the flow of trunk sewers at or near the outfalls and carrying this sewage to a disposal plant for treatment. The existing sewer system is chiefly of the combined type, and figures for the design of the interceptor were based upon an adjustment between the dry-weather flow and that portion of the storm water which on the average came when the rivers were lowest.

Stream gagings taken for a number of years were used in determining this relation. The dry-weather flow figures were obtained by gagings on each trunk sewer, but the gages used were of a type that gave only the maximum dry-weather flow for each day. Actual water consumption in each sewer district was therefore also obtained. A comparison and adjustment of these quantities gave a resultant daily-flow curve assumed to be close to the present actual conditions. Each district was then considered from a viewpoint of future development, and figures were prepared showing the estimated flow in 1940. The estimated future flow was increased by 30% to care for the surface water that would come before the streams would rise and so prevent a pollution from the first runoff. The design of the interceptor was based upon these figures with a limiting minimum velocity of 2½ ft. per sec. The work of constructing this sewer is divided into two sections. Section 1 picks up all the outfalls in the city and has a length of approximately 2 mi.; Section 2 runs from the end of Section 1 to the proposed site of the disposal plant, a distance of approximately 2½ mi. The route of this sewer closely follows the shore line of both rivers, in some places being entirely within the dry-weather bed of the streams. The soil encountered is a mixture of river silt underlain by a layer of gravel with occasional showings of shale rock above the invert elevation.

The construction of Section 1 is now under way. The pipe being used for sizes from 12 to 24 in. inclusive is vitrified tile, in 3-ft. lengths, double strength where available. The 36-, 42- and 48-in. sewer is of reinforced-concrete pipe, cast in 4-ft. lengths at three plants distributed along the route, and delivered by the pipe manufacturers close to the line of the work.

Vitrified pipe is laid with bituminous joints except where a surrounding concrete protection is placed. At these points cement-grout joints are being used. In laying this pipe the trench is unwatered to within 6 in. of

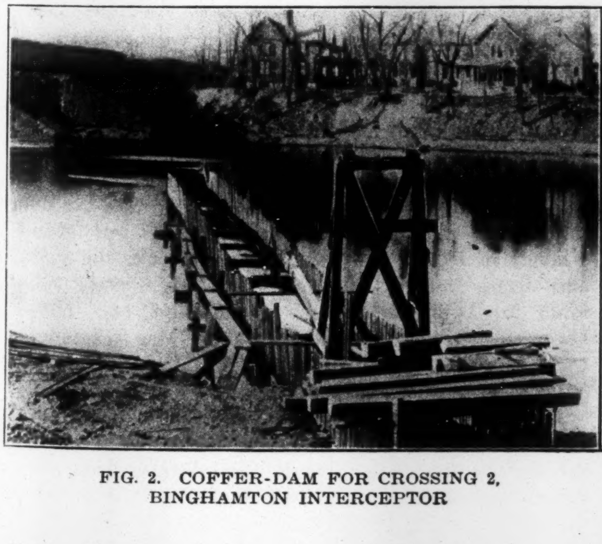

FIG. 2. COFFER-DAM FOR CROSSING 2, BINGHAMTON INTERCEPTOR

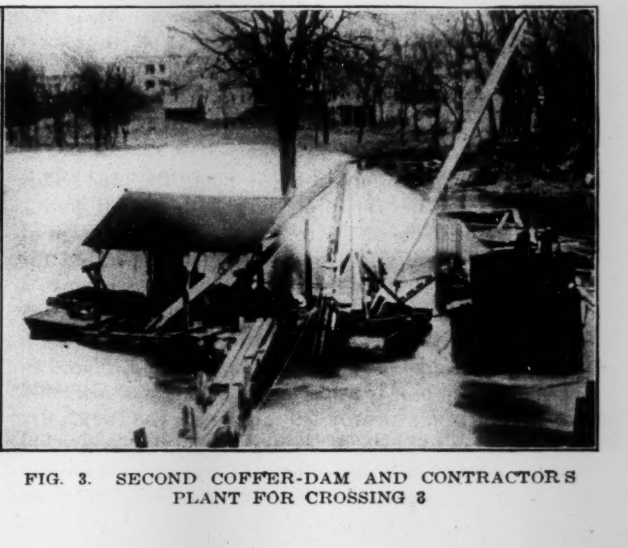

FIG. 3. SECOND COFFER-DAM AND CONTRACTORS PLANT FOR CROSSING 3

the invert. A recent test of 250 ft. of the bituminous-joint construction on 24-in. pipe showed one small leak.

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*Deputy Engineer, Binghamton, N. Y.

The method of protecting the vitrified-pipe sewer where its elevation brings it above the original surface is by driving steel sheetpiling on each side 6 in. from the pipe. The piling has an average penetration of 5 ft. and is driven by hand. After the pipe is laid and an earth-fill tamped into place between the lines of piling, a 6-in. concrete slab is cast over the top. Where the pipe is not above the surface of the ground, but is so close thereto as to be in danger from the scouring action of the heavy floods, it is completely embedded in concrete extending 9 in. beyond the pipe on each side and running down 12 in. below the invert with a thickness on top of 9 in.

LAYING CONCRETE PIPE

Concrete pipe is laid with grout joints, the trench being entirely unwatered. During construction it has been necessary, on account of the excessive amount of water encountered in a gravel stratum near the invert, to use underdrains at certain places along the line. This consists of an 8-in. tile pipe, laid with burlap joints, placed along one side of the trench below the elevation of the bottom of the pipe. The pumping equipment on the 48-in. sewer is one 8-in. centrifugal working against a head of approximately 20 ft. This is placed in a sump at the lower end of the 48-in. section and unwaters the trench down to the invert. A 4-in. diaphragm pump, placed in the trench where pipe is being laid, discharges over a bulkhead into the sewer already laid and keeps the trench dry for pipe laying.

Where the interceptor meets with branch sewers situated on the same side of the river, regulating chambers will be constructed. These consist of a grit chamber on the trunk sewer, the outlet of which chamber empties directly into the interceptor. A bypass from the grit chamber cares for the excess surface flow beyond the capacity of the interceptor. This bypass is checked against a rise in the river by a check valve. When the river is at abnormal height, the interceptor will therefore be flowing full; and a sufficient head will be built up in the trunk sewer to force a flow through the check valve. The backing up in the sewer system will not, however, be greater than that experienced in the past.

Where outfalls are on the opposite shores of the rivers, inverted-siphon river crossings are being constructed. These are equipped with grit and regulating chambers at the inlet end similar to those mentioned above. The largest of these crossings (No. 3 shown in detail in Fig. 5) carries a present flow of approximately 4,800,000 gal. per day, and the estimated future flow is 12,200,000 gal. From the grit chamber the flow passes into the inlet siphon chamber. From here three 18-in. cast-iron pipes embedded in concrete carry the sewage under the bed of the river. Two of these pipes have the same inlet elevation, while the third pipe is raised at its inlet a height of 18 in. This arrangement permits the closing and cleaning of any pipe in the crossing, since a single lower pipe will care for the present flow, and the two lower pipes or one lower and the upper pipe will care for the future flow. All three pipes are equipped with sluice gates at both inlet and outlet ends.

Directly in back of the inlet chamber is the cleaning well, which is carried down below the bottom of the lowest part of the siphon. Into this cleaning well 18-in. return pipes are carried from T's placed in the main

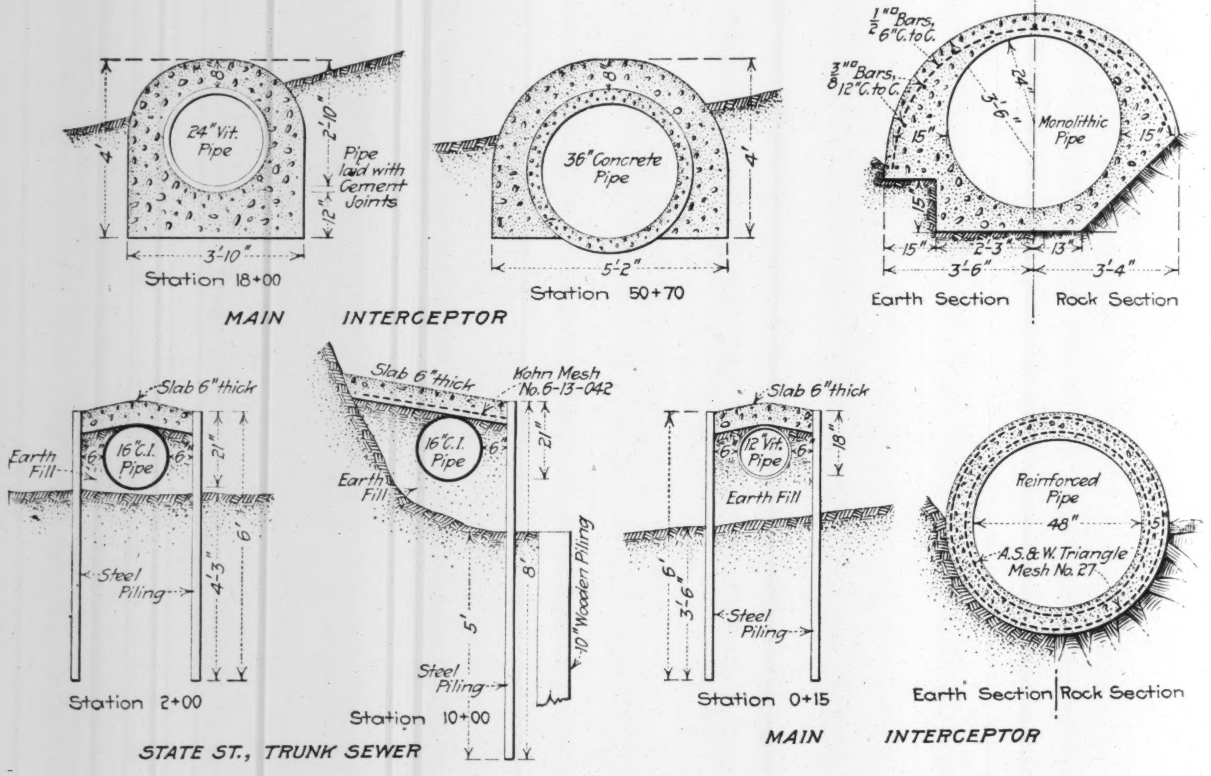

24" Vit. Pipe
8"
4'
2'-10"
Pipe laid with Cement Joints
12"
3'-10"
Station 18+00
36" Concrete Pipe
8"
4'
5'-2"
Station 50+70
MAIN INTERCEPTOR
1/2"□ Bars, 6" C. to C.
3/8"□ Bars, 12" C. to C.
24"
3'-6"
Monolithic Pipe
15"
15"
15"
15"
2'-3"
13"
3'-6"
3'-4"
Earth Section
Rock Section
Slab 6" thick
Earth Fill
16" C.I. Pipe
6"
6"
21"
6'
4'-3"
Steel Piling
Station 2+00
Slab 6" thick
Kohn Mesh No. 6-13-042
16" C.I. Pipe
6"
21"
Earth Fill
8'
5'
10" Wooden Piling
Steel Piling
Station 10+00
STATE ST., TRUNK SEWER
Slab 6" thick
12" Vit. Pipe
6"
6"
18"
Earth Fill
6'
3'-6"
Steel Piling
Station 0+15
Reinforced Pipe
48"
5"
A.S.&W. Triangle Mesh No. 27
Earth Section
Rock Section
MAIN INTERCEPTOR

FIG. 4. TYPICAL SECTIONS, SHOWING BINGHAMTON INTERCEPTOR CONSTRUCTION

crossing pipes. Similar pipes and T's are placed also at the outlet end of the siphon, where a second cleaning well is constructed. The ends of the cleaning pipes are equipped with flap valves held tight by capscrews, and to these valves are attached standard fire-hose connections. From cleaning well to cleaning well there is a straight run in each crossing pipe. This arrangement permits both flushing and rodding the entire length of the siphon. At the outlet end all three pipes discharge at the same elevation, where they have a free fall into the interceptor.

CONSTRUCTION WORK AT CROSSING 3

Construction of crossing No. 3 started with the excavation of the inlet chamber and the driving of a steel sheet-piling coffer-dam approximately one-fourth of the distance across the stream. The first coffer-dam was 86 ft. long and 9 ft. wide, and the lines for driving the sheeting and for maintaining a proper width were given by floating 8x 10-in. timber frames into place, straddling the center line. These frames were in sections about 10 ft. long and permitted easy access for laying pipe without disturbing the crosspieces. The coffer-dam was unwatered by a 6-in. centrifugal pump and was kept dry by two 2-in. steam ejectors and one 4-in. gasoline-engine diaphragm pump. The average head of water on the outside was 4 ft., although at one time this was increased to 7 ft. by a sudden rise in the river. The ditch for these cast-iron pipes was excavated by hand in hard gravel, this material being removed by a clam-shell bucket.

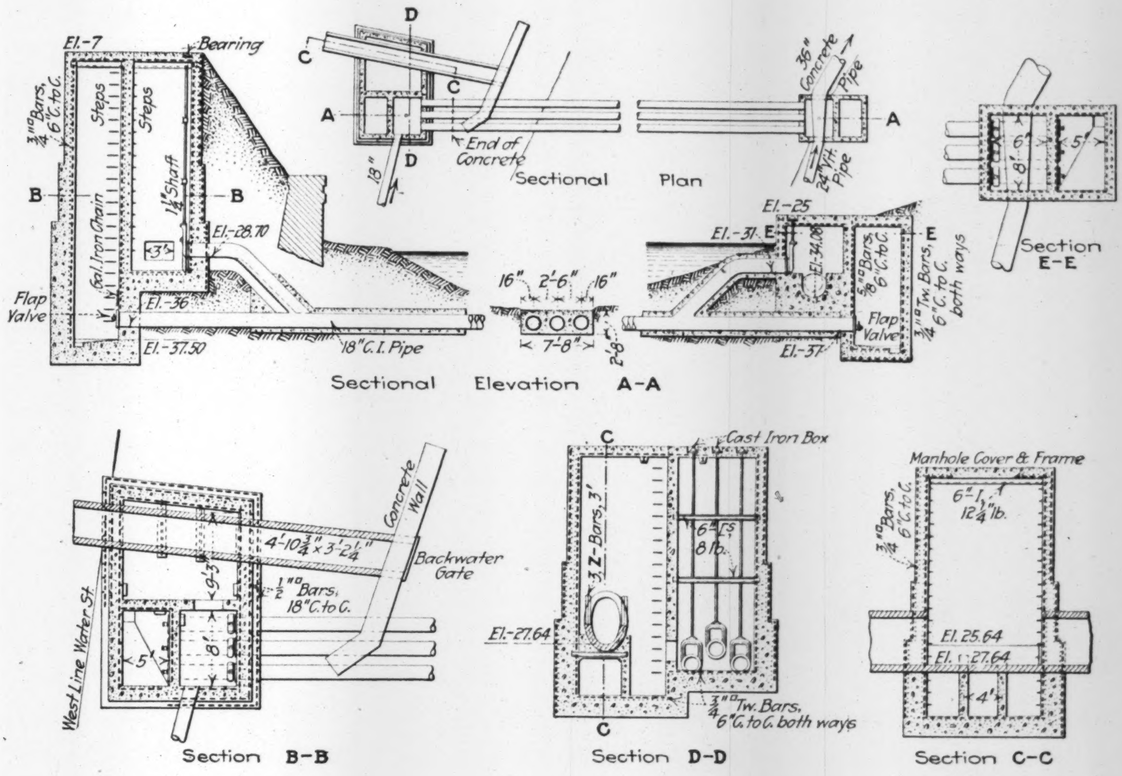

El.-7
Bearing
3/4" Bars, 6" C. to C.
Steps
Steps
B
B
1 1/2" Shaft
Gal. Iron Chain
El.-28.70
3'3"
Flap Valve
El.-36
El.-37.50
18" C.I. Pipe
16" 2'-6" 16"
7'-8"
2'-8"
Sectional Elevation A-A
D
C
C
A
End of Concrete
D
18"
Sectional Plan
36" Concrete Pipe
24" V.T. Pipe
A
El.-25
El.-31
E
E
El.-34.00
5/8" Bars, 18" C. to C.
3/4" Tw. Bars, 6" C. to C. both ways
Flap Valve
El.-37
6'
5'
8'
Section E-E
West Line Water St.
4'-10 3/4" x 3'-2 1/4"
9'-3"
1/2" Bars, 18" C. to C.
Concrete Wall
Backwater Gate
5'
8'
Section B-B
C
Cast Iron Box
3 Z-Bars, 3"
6" I's 8 lb.
El.-27.64
3/4" Tw. Bars, 6" C. to C. both ways
C
Section D-D
Manhole Cover & Frame
3/4" Bars, 6" C. to C.
6" I, 12 1/4 lb.
El. 25.64
El. -27.64
4'
Section C-C

FIG. 5. DETAILS OF RIVER CROSSING NO. 3, BINGHAMTON INTERCEPTING SEWER

The contractor's plant for driving coffer-dam and handling excavated material was carried on a wooden barge of sufficient size with its maximum loading to draw not more than 15 in. of water. The plant consists of a 9-ton hoist boiler, derrick and boom to carry the steam hammer or clam-shell bucket. At the derrick end of the barge, sliding spuds are let down to the river bottom and locked in position to insure stability and to hold the barge above water when the boom is loaded. The steam for driving the hammer was furnished from a boiler erected on the shore.

The shore end of this coffer-dam kept the inlet chamber dry, and concrete for this chamber was placed while the iron pipes were being laid. When the pipe laying here was complete, this first coffer-dam was pulled and a second one driven farther out in the stream and inclosing the ends of the pipe lines. It is intended to unwater this second coffer-dam by a pump placed at the shore end of the crossing pipes and by using these pipes as drains. This shore pump will be augmented by a second pump placed on top of the coffer-dam.

One similar river crossing (No. 2) is being constructed under the present contract. The first coffer-dam has been constructed for this crossing and is 170 ft. in length.

Excavation for the 48-in. concrete sewer is being done by No. 3 Keystone excavator. The maximum cut encountered is 14 ft.; and the machine is doing the entire excavating except for the bottom trimming, which is in soft shale rock and is taken out by hand. It is also used for backfilling by reversing the direction of the digging apparatus.

The Sewage Disposal and Water Plant Co., of Schenectady, is the contractor for Section 1. It is intended to continue with the construction of Section 2 of the interceptor and the disposal plant in 1917.

New Type of Concrete Floor on St. Louis Bridge

SYNOPSIS—Steel formwork introduced as simpler and cheaper than wood, and steel reinforcement made up in mats and unit sets of bars to facilitate placing. Concrete distributed by revolving dump-cars.

Construction methods and difficulties are not always apparent in the design of structures, and this fact is illustrated by some interesting features in the floor of the roadway portion of the east (Illinois) approach viaduct of the new municipal bridge over the Mississippi River at St. Louis, Mo. The wood paving is carried by a concrete slab resting on longitudinal steel girders and joists that are spaced 4.50 and 4.92 ft. apart and are framed between the transverse girders. The concrete is extended downward to inclose and protect the steel framing. Fig. 1 shows the steel formwork and reinforcement being placed.

The original design, shown at the left in Fig. 2, consisted of a flat slab with tapering ribs along the joists. The building and removal of wood forms for this flat slab and trough construction would have been costly and slow, especially as the removal would have had to be done from staging or falsework beneath the deck, at a considerable height above the ground.

To simplify the work and reduce the cost, a modified design was therefore prepared by the city's engineers in charge of the construction (which is being done by municipal forces). This consists in arching or curving the lower side of each section of the slab and supporting the concrete on a form of arched plates of thin sheet steel (No. 22 gage), which are fitted between the joists and rest upon their flanges (or upon shelf angles of the outside longitudinal girders). This formwork is left in place and will gradually rust away, having served its purpose as soon as the concrete has set. This modified construction is shown at the right in Fig. 2. The arch is of 48⅛-in. radius in the main portion and $8\frac{11}{16}$ in. at the sides.

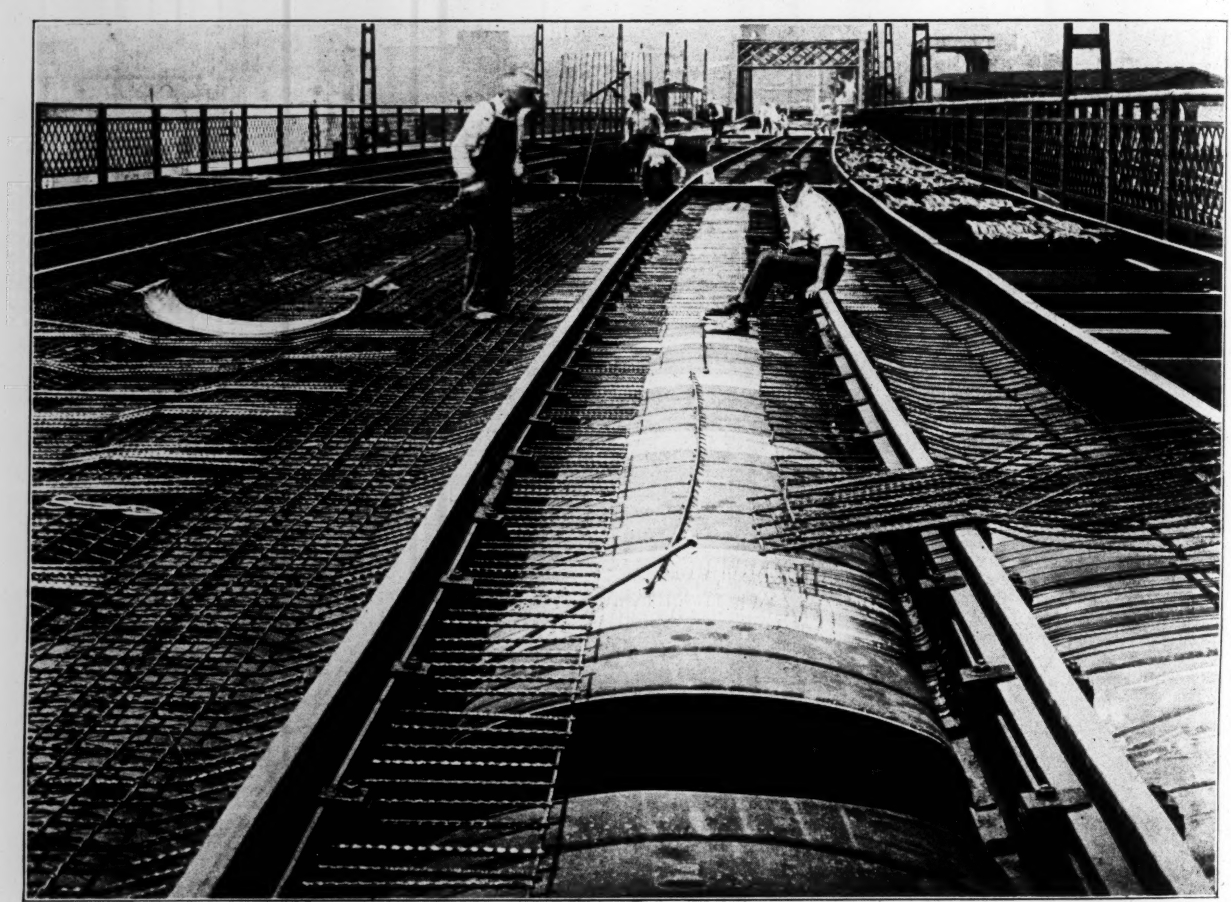


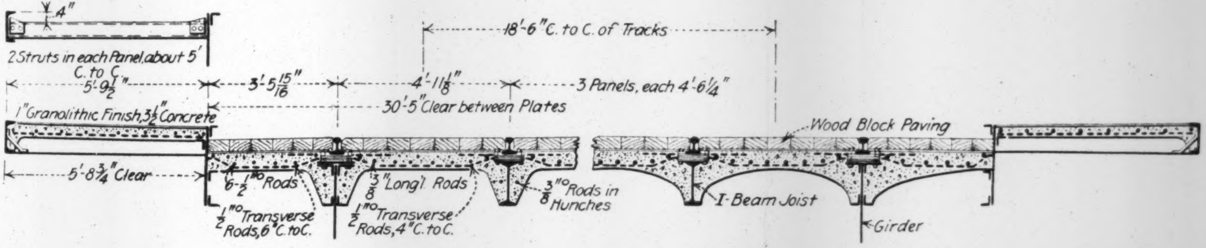
FIG. 1. STEEL FORMS AND REINFORCEMENT FOR THE CONCRETE FLOOR OF THE ILLINOIS APPROACH TO THE MUNICIPAL BRIDGE OVER THE MISSISSIPPI RIVER AT ST. LOUIS

The steel sheets are pressed to shape. Each is about 22 in. long, with a ¾-in. corrugation at each end and in the middle to stiffen it and hold the shape. The end corrugations interlock, as the plates lap each other. For the sidewalks the width (6 ft.) is too great for arching the slab, and the steel sheets are pressed to channel shape, as shown. They are flat on top for about 5 ft., and the sides slope outward to rest on the lower flanges of the sidewalk stringers. These wide form plates are stiffened by angles pressed to the same shape and welded to the under side. The steel forms were made by the Hydraulic Pressed Steel Co., of Cleveland, Ohio.

The steel reinforcement of the concrete floor slab consists of transverse bars and layers of heavy wire netting of special make. The original design provided for longitudinal rods, but with the great number of rods and the cost of labor, the placing of these would have been very slow and expensive. Instead, a special make of wire netting was used, the longitudinal strands of which were equivalent to the rod sections. No allowance is made for the diagonal wires as reinforcement.

To reduce the difficulty and cost of handling and placing the very large number of transverse rods, these are made up into sets of seven bars each, held together at the ends by light bars welded to the under side. They are held also at two intermediate points by spacers, which are flat strips of metal having lugs stamped out to be bent over the bars. These mats are 16 ft. 5 in. long and about 4 ft. wide, and each can be handled readily by two men. Similar mats 6 ft. long are used for the sidewalk slab.

The car-track rails formed an obstruction to the placing of the mats, as they are supported above their I-beams by chairs staggered in position (33 in. apart). For each side of the roadway there is a mat extending from the curb to the track, with its bars extending beneath the outer rail. A third and narrower mat is placed between the tracks, with its bars extending beneath the inner rail of each track. Loose bars are placed between the rails of each track and are wired to the projecting ends of the bars of the mats on either side (inside the rails). This wiring is done mechanically by the use of prepared wire loops that are set in place and then twisted by a hand tool with a revolving stem. This device is made by the Curry Manufacturing Co., of New York City.


4"
2 Struts in each Panel, about 5' C. to C.
5'-9½"
3'-5 15/16"
4'-11⅛"
3 Panels, each 4'-6¼"
18'-6" C. to C. of Tracks
30'-5" Clear between Plates
1" Granolithic Finish, 3½" Concrete
5'-8¾" Clear
6-½"⌀ Rods
⅜" Long'l Rods
⅜"⌀ Rods in Hunches
½"⌀ Transverse Rods, 6" C. to C.
½"⌀ Transverse Rods, 4" C. to C.
Wood Block Paving
I-Beam Joist
Girder

Part Section of Slab as Designed

Part Section of Slab as made with Steel Forms

FIG. 2. CROSS-SECTION OF ROADWAY, SHOWING ORIGINAL AND MODIFIED DESIGN OF CONCRETE SLAB

Fig. 1 shows the whole construction very clearly. In the center is one of the tracks with the arched form sheets in place. On each side of this is a panel with the form sheets and the welded sets of transverse rods, the ends of these rods projecting under the rails into the track space. In the panel at the left of the track the woven-wire mat is also in place, laid upon the transverse bars. Some of the form plates and the welded sets of bars are shown lying around, while in the middle of the track space is one on the spacing bars. At the right is the sidewalk framing (with no form plates in place).

The street-car tracks have 90-lb. T-rails (Am. Soc. C. E. section) supported on chairs with insulating strips and secured by bolted clips. These supports are 33 in. apart and are staggered in position, as noted above.

For concreting this roadway floor on the viaduct approach, two mixer plants were used, one at each end of the approach. The one at the higher or bridge end had elevated material bins in the usual way, while for the one near the lower end the materials were placed in stock piles and wheeled to the mixer. An 80-ft. steel elevator tower was used, high enough above the bridge deck to supply an inclined chute extending across the deck. For distributing the concrete the standard-gage car tracks were utilized, as shown in Fig. 3.

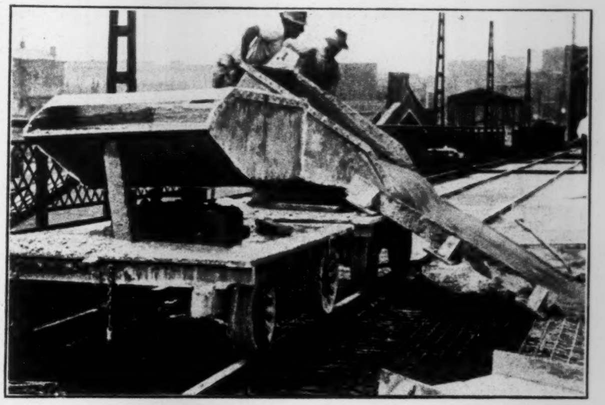


FIG. 3. PLACING CONCRETE WITH SMALL REVOLVING DUMP-CARS ON STANDARD-GAGE TRACKS

For each track there was a train of two or three cars operated by a Whitcomb 6-ton gasoline locomotive. The cars were of an improvised type, as standard-gage equipment of the small capacity desired was not to be had. Each concrete car is a railway push-car having mounted on it a 1-yd. steel dumping body or hopper. The body is carried by a revolving base, so that it can dump on either side or endwise between the rails. At first the trains were all loaded on the track nearest the elevator tower, but this involved an inconvenient amount of switching and interfered with the free movement of the trains. The temporary crossover was taken out, therefore, and the chute was extended across the roadway to serve both tracks, so that each train could be operated independently on its own track. In Fig. 3 one car is dumping at the side, while the other has the body in position for end dumping

The work is being done by day labor under the direction of the Board of Public Service, of St. Louis, Mo. It is in charge of Clinton H. Fisk, Chief Engineer of Construction, and W. F. Collar, Superintendent of Construction.

Notes from Field and Office

Field methods for surveying subsurface structures in Milwaukee—Bridge piers in Carolina flood district broke at pouring joints—How a long-standing boundary dispute was settled; an excellent example of retracing survey methods

Surveying for the Milwaukee Intercepting Sewers

By Darwin W. Townsend*

For the purpose of obtaining information relative to the existing underground and surface structures over the routes of the proposed intercepting sewers in Milwaukee, Wis., three field parties were organized early in March, 1915. Each party consisted of a chief, a transitman and two rodmen. Preparations were made at the same time, by increasing the drafting-room force, to keep the notes plotted up to date, as they were received from the field-party chiefs at the end of each day.

Loose-leaf notebooks, with pages 7⅞x5 in. (see Fig. 2) were used in the field, and three pages were given to each city block. Page 1 showed property lines, curb lines, block distances and street widths, together with the location of all manholes, fire wells, etc., visible from the street surface. Page 1-a gave level notes of the elevations, top and bottom, of manholes, etc., and page 1-b showed cross-section sketches of all manholes investigated.

The first page for each city block had the property and curb lines sketched upon it before the page was handed over to the field-party chief. The curb and property lines from which the sketches were made were taken from the official quarter-section maps of the city, and one man was occupied in the drafting room the greater part of his time in the preparation of these notebook pages. The time spent upon the sketches proved its worth, however, time and again, as it always served as a check for tying in manholes between the intersecting streets.

Each field party operated as follows: All manholes in a block were first tied in to the curb lines; next, they were opened up and investigated, and a sketch was made. Last the elevations were taken upon the rims at the street surface. These notes were plotted to a horizontal scale of 40 ft. = 1 in., and a vertical scale of 6 ft. = 1 in. As soon as the notes were "cold," they were filed away in envelopes and indexed under their proper headings.

All records pertaining to gas mains were secured from the Milwaukee Gas Light Co., and the locations and sizes were transferred directly from their plans to ours.

By Aug. 1, 1915, all the routes, a total of 32 mi., were surveyed and plotted. While the major portion of the sewer routes were in city streets, as before mentioned, several miles were in practically undeveloped territory, necessitating topographic and location work. Soundings for proposed pressure siphons were also taken across the Milwaukee, Menominee and Kinnickinnic Rivers at 13 different places.

Fig. 1 shows a typical street intersection upon which is plotted all available information concerning the under-

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*Chief Draftsman, Sewerage Commission, Milwaukee, Wis.

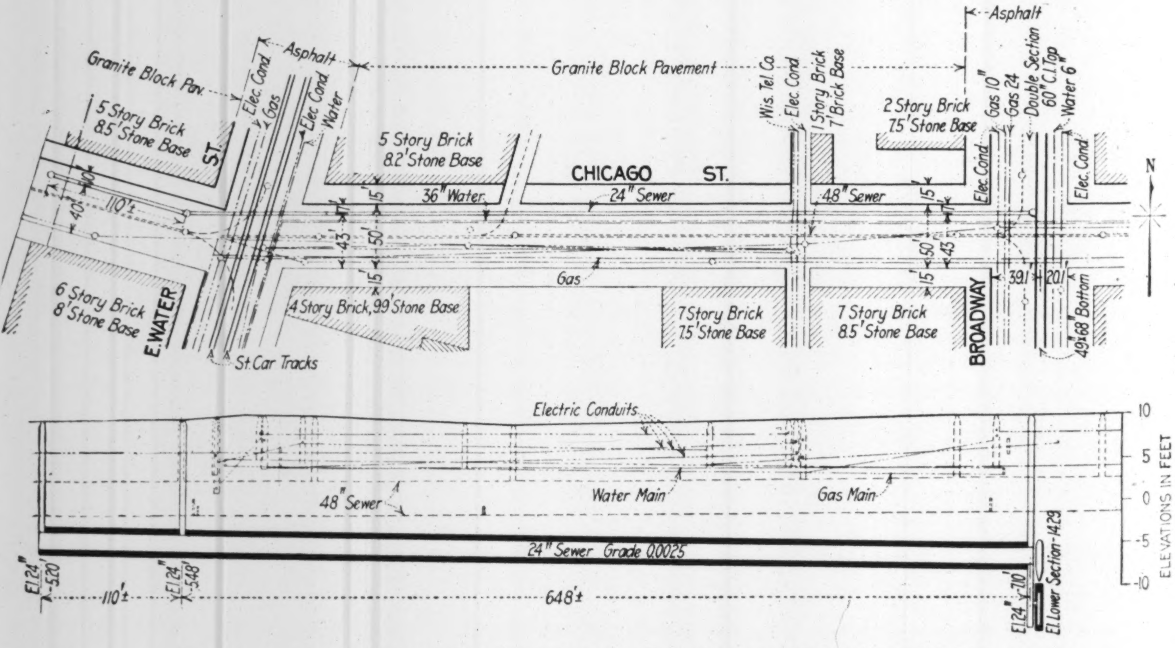
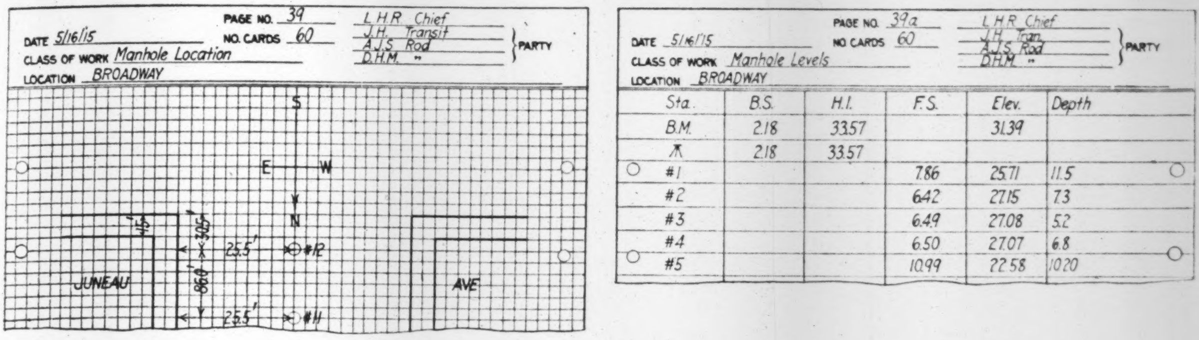

Granite Block Pav.
5 Story Brick
8.5' Stone Base
ST.
Elec. Cond.
Gas
Asphalt
Elec. Cond.
Water
Granite Block Pavement
Wis. Tel. Co.
Elec. Cond.
1 Story Brick
7' Brick Base
Asphalt
2 Story Brick
7.5' Stone Base
Gas 10"
Gas 24
Double Section
60" C.I. Top
Water 6"
5 Story Brick
8.2' Stone Base
CHICAGO ST.
36" Water
24" Sewer
48" Sewer
Elec. Cond.
Elec. Cond.
N
110'±
40
43
50
15
15
50
45
39.1
20.1
Gas
6 Story Brick
8' Stone Base
E. WATER
4 Story Brick, 9.9' Stone Base
St. Car Tracks
7 Story Brick
7.5' Stone Base
7 Story Brick
8.5' Stone Base
BROADWAY
49.68 Bottom
Electric Conduits
48" Sewer
Water Main
Gas Main
24" Sewer Grade 0.0025
El. 24" -5.20
El. 24" -5.48
El. 24" -7.10
El. Lower Section -14.29
110'±
648'±
10
5
0
-5
-10
ELEVATIONS IN FEET

FIG. 1. TYPICAL STREET INTERSECTION, SHOWING ALL DATA OBTAINABLE



DATE 5/16/15
PAGE NO. 39
NO. CARDS 60
CLASS OF WORK Manhole Location
LOCATION BROADWAY
PARTY
L.H.R. Chief
J.H. Transit
A.J.S. Rod
D.H.M. "

S
E
W
N
4.5'
30.5'
86.0'
25.5'
#12
25.5'
#11
JUNEAU
AVE

DATE 5/16/15
PAGE NO. 39a
NO CARDS 60
CLASS OF WORK Manhole Levels
LOCATION BROADWAY
PARTY
L.H.R. Chief
J.H. Tran.
A.J.S. Rod
D.H.M. "

Sta.	B.S.	H.I.	F.S.	Elev.	Depth
B.M.	2.18	33.57		31.39	
⊼	2.18	33.57			
#1			7.86	25.71	11.5
#2			6.42	27.15	7.3
#3			6.49	27.08	5.2
#4			6.50	27.07	6.8
#5			10.99	22.58	10.20

FIG. 2. TWO SIDES OF LOOSE-LEAF FIELD NOTES: MILWAUKEE SEWER SURVEYS

ground structures; but, as usual, structures of which no records were obtainable were encountered when the trenches were opened up for the construction of the intercepting sewers.

In locating the lines for the proposed sewers in the streets the path of least resistance was naturally adhered to in practically all cases, exceptions being made of course where this would involve needless expenditure, and a short-cut was deemed advisable to save grade.

Accurate time records were kept both in the field and the drafting room during the five months this work was in progress. The cost per mile for fieldwork was $42, and for drafting-room work $90, both exclusive of material and administration costs. The seemingly high cost of drafting-room work is due to the fact that not only were the field notes plotted, but practically all the designs for sewer and tunnel cross-sections, standard and special manholes, shafts, junction chambers, etc., were completed during these five months. This, of course, necessitated carrying sufficient drafting-room force for that purpose. No tracings were made, however, during this time.

The work was done under the supervision of the Milwaukee Sewerage Commission, of which T. Chalkley Hatton is chief engineer.

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Contractor Discusses Bridges Damaged by Flood

A prominent contractor, during a recent trip through the flood district of the Catawba and the French Broad River Valleys of North Carolina, studied the effect of the high water of July last on concrete-bridge foundations. From his observations he deduces some interesting conclusions regarding the stability of such structures.

The July, 1916, rainfall on the watersheds of these rivers was the heaviest recorded in the United States. At Altapass, N. C., the 24-hr. rainfall, July 14-15, is reported as 22 in. Altapass is the dividing line of the watershed of the Catawba River and the headwaters of the tributaries of the Tennessee River. The Catawba flows to the Atlantic Ocean, and the Tennessee River to the Gulf of Mexico through the Ohio and Mississippi Rivers. The Catawba is reported to have risen 48 ft. in 8 hr., the stage being 18 ft. higher than any previous record.

At Mt. Holly, N. C., the Catawba was spanned by three bridges in the following order—county highway, Seaboard Air Line Ry. and the Piedmont & Northern Ry. (electric line). These are only a few hundred feet apart. The county bridge was not a very heavy structure. The Seaboard bridge was a deck truss on stone piers and abutments, and the Piedmont Northern was a deck truss on concrete piers and abutments, built in 1911 and of heavy construction. As described by an onlooker, the Piedmont bridge was weighted down by 10 carloads of coal in an effort to hold it. The drift piled against the Seaboard bridge until this bridge finally gave way, the wreckage sweeping down against the Piedmont bridge, which was wrecked. The steelwork and cars were carried downstream from one to several hundred feet, while one 60-ft. girder span was carried into an adjacent field about 1,000 ft. from the bridge site.

Of the Seaboard bridge one of the stone abutments remained standing, but the piers were gone. The abutments of the Piedmont bridge remained intact; the flood washed out the dirt fill behind the abutments which, being built without wings, appear at a distance like piers. The first span from the abutment on the Mt. Holly side to Pier No. 1 is of 60-ft. girders. Between Piers 1 and 2 is the first deck-truss span. When the bridge went out, Pier 2 broke off a few feet above the foundation concrete, and at a point where the pouring had stopped at some time during the construction of the pier. In falling, the pier broke again; and again the failure occurred where the pouring had stopped for a time. The two channel piers, with their foundations, turned over and broke in blocks right where the several pourings had stopped. The pier on the Charlotte side is intact, although about 12 ft. of coping on the pier went with the span, which was bolted to the coping (18x5 ft. by 18 in. thick). The bolt took the upstream portion of the coping, leaving about 6 ft. of the downstream coping on the pier.

The piers all seem to be broken where the pouring stopped for the day. The bonding stones of one-man size pulled out of the concrete. Except for these breaks the piers are undamaged; and if it were possible to handle the pieces, they could probably be fitted one on top of the other, just as they were before the flood.

This is very good evidence that there is little bond between successive pourings of concrete. It is questionable whether it would not be better not to bolt steelwork to concrete piers. The piers to which the trusses were bolted failed, while the abutments on which the steelwork rested unbolted remained standing.

Farther up the Catawba River there were a few highway bridges carried on steel cylinders filled with concrete, but they did not last long. At one point the concrete pier and abutments of a highway bridge stand, but there is no trace of the steelwork, the flood evidently having topped the concrete some 10 or 12 ft. At one point on the Southern Ry. a wing of a 12-ft. arch (approximately) broke on the downstream side and washed downstream about 40 ft.

On one of the tributaries of the Catawba, near Old Fort, N. C., a few concrete abutments for highway bridges with earth approaches and steel superstructures were washed away, but the concrete was not damaged. A concrete bridge at Biltmore across the Swannannoa River, completed a short time before the flood, was uninjured.

At Asheville, N. C., the Southern Ry. crosses the French Broad River on heavy reinforced-concrete piers about 25 ft. high and 30 ft. apart. Millions of feet of lumber piled against this bridge, which for several hours acted as a dam, but it was not carried out. Below Asheville were a couple of highway bridges finished a short time before the flood. They were carried on 36-in. round concrete piers tied together by a 12-in. concrete web. The steelwork of the bridges was washed down the river, while these piers, poured monolithic, stand intact, except where a pier broke loose from its anchorage in the granite river bottom. The broken piers look as if they might be put back in place and be as good as before.

Considerable damage was done to railway embankments, and the Southern Ry. is now building rubble-masonry walls for future flood protection.

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Retracing An Old Survey To Settle Boundary Dispute

After more than a century of controversy the boundary line between the states of Ohio and Michigan has been defined to the satisfaction of both parties; and of all state boundary controversies, of which there have been many, there is probably none that has a more interesting history than this.

Historical Summary

The whole trouble grew out of a misconception of the geography of the Northwest Territory at the time the famous Ordinance of 1787 was passed by the Congress of the Federation. It will be remembered that by this agreement the Eastern States of Massachusetts, Connecticut, New York, Pennsylvania and Virginia relinquished their claims to the Northwest Territory that new states might be formed from it. This Ordinance of 1787 described an east and west line drawn through the southerly bend of Lake Michigan until it intersected the shore of Lake Erie as the boundary between the two tiers of states it was proposed to form.

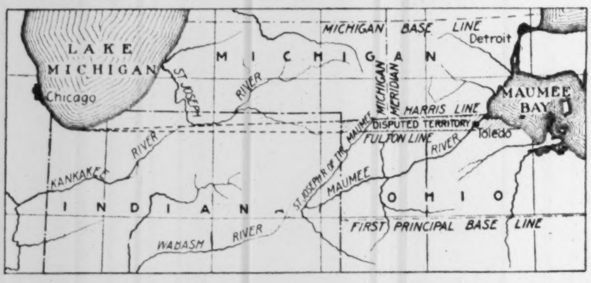


FIG. 1. BOUNDARY OF OHIO AND MICHIGAN WHICH WAS LONG A SUBJECT OF DISPUTE

All the early maps of this region showed the southern extremity of Lake Michigan north of where it should have been, so that it is assumed that the framers of the Ordinance of 1787 believed that they were fixing the northern boundary of Ohio Territory on Lake Erie north of Maumee Bay and even as far north as the mouth of the Detroit River. It was not suspected until 1802, when a convention was drafting the constitution of the State of Ohio, that the southern end of Lake Michigan was some miles south of the east and west line through the north end of Maumee Bay.

So a proviso was attached to this constitution, that if by a geographic determination the southern bend of Lake Michigan extended so far south that a parallel passing through it should not intersect Lake Erie, or should touch the lake east (and south) of the mouth of the Maumee, then with the assent of Congress the boundary was to be a direct line running from the southern extremity of Lake Michigan to the most northerly cape of Miami (or Maumee) Bay. Congress accepted the constitution, but neither accepted nor rejected the proviso. The governor and people of Michigan Territory subsequently insist-on a literal interpretation of the bounds described in the Ordinance of of 1787 (and afterward incorporated in the act establishing Michigan Territory), while the new State of Ohio refused to give up its settlement and port on Maumee Bay (afterward the City of Toledo). One result of the controversy was to keep Michigan out of the Union for some time after it was entitled to admission as a state and until it tacitly agreed to relinquish its jurisdiction over the disputed territory. This was in 1837.

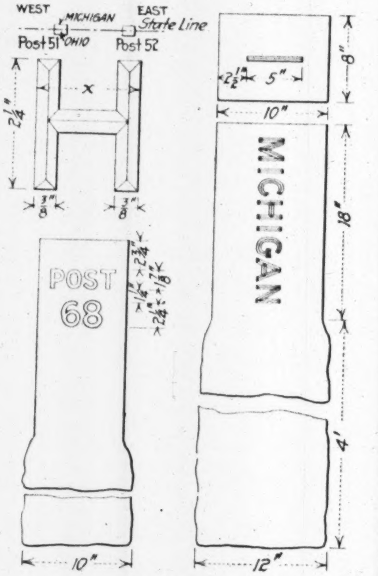


FIG. 2 OHIO-MICHIGAN BOUNDARY MONUMENTS

The disputed boundary was originally surveyed in 1817, according to the Ohio interpretation, for the surveyor commenced at the North Cape of Miami Bay and ran his line westward. Resurveys were made in 1837 and 1842 of portions of the reputed boundary in connection with the surveys of the United States General Land Office. During these resurveys 31 of the original 71 mile posts were found. Nothing further was done until 1915, when a Joint Boundary Commission was appointed and the work of permanently marking the boundary was accomplished.

Impossible To Locate Original Marks

A preliminary reconnai[illegible]ce of the line in the summer of 1915 disclosed the fact that none of the original marks or posts, nor those set in 1837 and 1842, were in existence. The western terminus of the line, the northwest corner of Ohio, was identified by a boulder or "niggerhead" buried in the highway. The eastern terminus, originally the northernmost cape of Maumee Bay, had long since been washed away. It was therefore decided to start at the western terminus and work eastward.

The notes of the original survey (1817) and of the public-land surveys (1837 and 1842) were available, and it was decided to reproduce this line (or lines) as nearly as possible. The usual methods employed in such work, of course, consist chiefly in finding and identifying the original marks; but as already stated, it was out of the question in this case. Therefore, the following scheme of operations was decided upon:

Program of Procedure

1. As nearly as might be, the line was to be relocated as originally staked out on the ground, and not necessarily run as a straight line from end to end.
2. Existing monuments, fences, highways and other marks, when agreed to by land owners on both sides as being on the state line, were to be so accepted.
3. Field maps of the survey were to be prepared on a scale of 400 ft. = 1 in., showing the preliminary line in red ink, and the location with reference to it of all existing monuments, buildings, highways, property lines and other topographic features (except relief) in black ink.
4. From this atlas of field sheets (one mile shown on each sheet) and the field notes gathered on the preliminary survey, the points where the boundary monuments should be planted were to be determined by a conference of the three commissioners.
5. The final positions of the monuments and the bearings and distances between were to be determined.
6. The latitude and longitude of all monuments were to be determined to the nearest 0.01″.
7. In general, monuments were to be planted at each highway and railroad crossing of the state line.
8. Intermediate monuments were to be planted 4 ft. into the ground, the bottoms to be surrounded with concrete 12 in. deep, 2 ft. square, half a sack of portland cement being allowed for each setting.
9. A special monument was to be set at the western terminus (a corner of the three states, Ohio, Indiana and Michigan).
10. No monuments were to be set in an east and west road unless the line made an angle at some point in the road.
11. Monuments were to be placed at all angles in the state line.

Methods—Instruments—Monuments

In most cases the only feasible method was to accept the General Land Office measurements of the connections made in 1837 and 1842 between the state line and the nearest section and quarter-section corners, north and south. Discrepancies in the figures were prorated.

In one instance the center of a highway for a distance of nearly two miles was taken as the boundary line, because it was so described by the survey notes of 1837, and had been so recognized since. The line as established by the methods employed elsewhere would have been from 71 to 116 ft. south of the center line. In another case a fence line accepted as a compromise in 1907 was taken as the boundary although it was 67 ft. and 75 ft. north of the section corners as determined from the General Land Office records. Two concrete posts on crossings of the Lake Shore & Michigan Southern R.R., which were reputed to be state boundary marks, and which agreed closely with the reëtablished line of 1837, were accepted as final marks.

The instruments used were a transit with 6-in. horizontal circles, graduated to 10′ and read by vernier to 30″, two 300-ft. steel tapes graduated to feet throughout, a 100-ft. steel tape, range rods, plumb bobs, etc. A double-centered transit line was run. Deflection angles were read twice, direct and reverse. This reference or random line was kept as near to and as nearly parallel to, the original line as circumstances permitted. Distances were measured to the nearest 0.01 ft. with one of the two 300-ft. tapes. Distances were checked to the nearest foot by stadia readings. Azimuth determinations were made from Polaris near sunset.

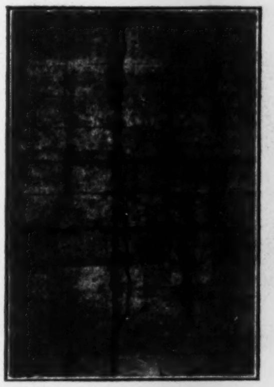
For marking the line the granite posts shown in the accompanying illustration were used. They were obtained from the Mount Airy quarry in North Carolina and cost $18 each, delivered. Each post weighs about 700 lb., but including the concrete setting; the weight in place exceeds 1,100 lb. A special granite monument with an appropriate inscription was erected on an offset (the actual point being in the center of the highway) from the Western terminus.

The boundary location was settled by three commissioners: C. E. Sherman, Inspector of the Ohio Topographic Survey; R. C. Allen, Director of the Michigan Geological Survey; and S. S. Gannett, of the United States Geological Survey. Mr. Gannett directed the fieldwork and computations. The completion of the fieldwork and the setting of the western monument were celebrated by appropriate ceremonies under the auspices of the Toledo Engineering Society at the site of the monument, Nov. 24, 1915.

The whole cost of the survey, 69.92 mi. long, did not exceed $7,200, or $102.95 per mi. An automobile was used to transport the field party of six men. The instruments used were loaned by the U. S. Government.

FINE AGGREGATE

Care Needed to Prevent Adhesion at Joints—That the separation on concrete at construction joints intended to localize cracks is not uniformly perfect can be observed in almost any finished piece of work. A typical instance is illustrated by the accompanying photograph. The retaining-wall whose face is represented has no crack or other developed defect in lengths of several thousand feet, except near some of the construction joints, which are spaced about 30 ft. apart. These joints were formed without interposing any paper or other separating material, by pouring one section after the adjoining section had set. No adhesion of any large amount should be obtained under these conditions, yet at places there seems to be a strong enough bond to break through solid concrete alongside the joint. On the wall shown in the picture, most of the joints have the shrinkage crack following straight down the V-groove formed at the face, but a sufficient number of meandering cracks occur to indicate that abnormal adhesion should be reckoned with.—F. S.

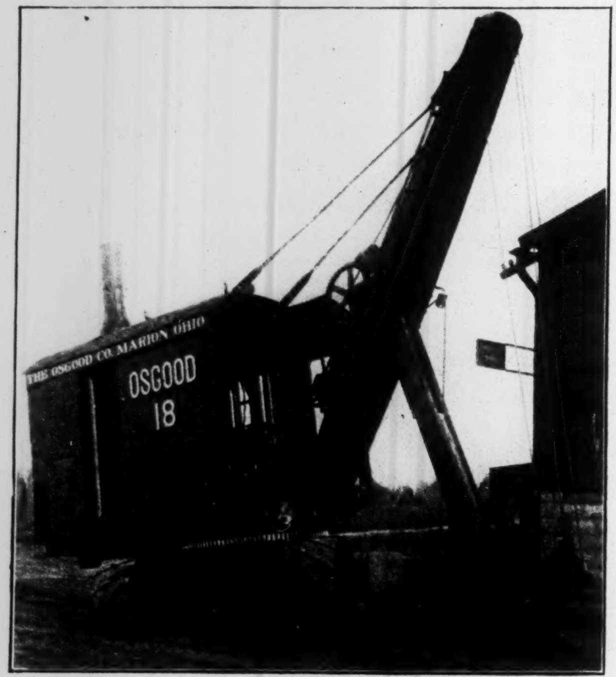


A SHRINKAGE CRACK

A Concreting Screed which is provided with plow handles at each end is used in concrete pavement practice around Pasadena, Calif. The plow handles make the control of the screed very simple and at the same time reduce the strain on the men doing the work. The view herewith is taken from a photograph of some paving work on the bottom of a reservoir at Pasadena.

PLOW HANDLES EASE UP CONCRETE SCREEDING

A Mired Shovel Can Lift Itself several inches off the ground so that planking can be placed under the wheels. This is done by dropping the dipper to the ground—as illustrated herewith—and starting the crowding or boom engines, and forcing the dipper handle in an upward direction. As the dipper is placed flat on the ground it is impossible to force it below the surface. Consequently, when the boom or crowding engines are started, the shovel is forced to rise off the gound.



SHOVEL LIFTING ITSELF SO PLANKING CAN BE PLACED

Dumping Rock Off High Trestles—G. P. Hawley, resident engineer of the Civic Investment and Industrial Co., Cedars, Que., asks for further information concerning the dumping of rock from high trestles (on the Southern Ry. relocation), as described in "Engineering News" of Nov. 16, p. 948, especially whether any end-dumping is employed. B. E. Chewning replies for the Sheahan Construction Corporation that the cars are not end-dumped, but that the 10-car trains are shoved out as far as possible, keeping the dinkey on the fill. Each car is dumped separately, a dog being used to hold the car on the rails. He states that the braces between trestle bents are constantly being broken during rock-dumping, but that this feature is not especially troublesome. Mr. Chewning goes so far as to say, "No successful dumping is ever obtained from end dumping from high trestles; whether dirt or rock. The pressure of the material will push the trestle legs out of place at the ground."

A Truck and Trailer Hauls 40 Tons per Day from the mine of the A. A. Haskins Dolomite Co., in San Benito County, Calif., to the railway located 10½ mi. away. The haul is through mountainous country with grades up to 10% and 1½ mi. long. The road is covered with dust from 6 to 8 in. deep. Prior to the present method the dolomite was transported by five 8-horse teams hauling 40 tons a day at a cost of $58.21. Now, a 5-ton White truck and a bottom-dump Troy trailer with rubber tires work on 24-hr. service, making four round trips with ten [illegible] each day, at a cost of $28.71.

HOW TRUCK AND TRAILER ARE LOADED FROM HOPPER

Cleaning Old Ballast is done by [illegible] Kansas City Railways by means of a portable rotary screen made out of an old concrete mixer by substituting a revolving screen for the mixing trough and blades. The screen is 6 ft. long and tapers from 18 in. diameter at the motor end to about 3 ft. at the discharge end. The same gasoline engine that formerly drove the mixer now furnishes motive power for the screen. The machine is mounted on a portable steel-wheeled truck. In view of the present high cost of ballast rock, this device is a money-saver.

Contractor's Compressed-Air Regulations—In the harbor siphon tunnels of the new intercepting-sewer system at Milwaukee, Wis., the Western Foundation Co. is carrying on compressed-air work under unusually cautious rules. The following times are prescribed for decompression:

For Pressure (Lb.)	Time of Decompression (Min.)
20 to 24	16
25 to 30	20
31 to 36	24

The men are required to dry their clothes and drink hot coffee on coming out of the air, suitable facilities being provided. The two tunnels, worked from a joint shaft on Jones Island, are 52 ft. below river surface, and at present are carrying about 28 lb. air. They are in sand, which stands excellently under the effect of the air, so that open face work is done.

Editorials

Engineering News Prizes Awarded

In *Engineering News* of Oct. 26 the offer was announced of a first prize of $50 and a second prize of $25 for the best articles on each of four specified subjects, to be submitted to the editors on or before Dec. 10.

The articles submitted in competition for these prizes have been examined and the awards are announced as follows: For papers on the first subject, "Rebuilding with Permanent Surface an Old Macadam Roadway," the first prize is awarded to Charles A. Carruth, of Rochester, N. Y.; and the second prize to Theron M. Ripley, of Watertown, N. Y. For papers describing "Operating Methods in a Drill Sharpening Shop," the first prize is awarded to J. E. O'Rourke, of Granby, Mo.; and the second prize to Frank Richards, of New York City. For papers describing "The Dry Mixing of Concrete Material at a Central Plant," the first prize is awarded to H. F. La Brecque, of Brooklyn, N. Y.; and the second prize to Benjamin Wilk, of Chicago, Ill. For the papers written on the subject, "Adapting the Motor Truck to Its Work," the first prize is awarded to Clarence B. Montgomery, of West Philadelphia, Penn.; and the second prize to Edwin Hall Warner, of Los Angeles, Calif.

The prize papers will be published in early issues of *Engineering News*.

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American Steel Production and Business Prosperity

If one were to form a hasty judgment from the slaughter of prices which took place on the New York Stock Exchange last week, it might well be believed that the conclusion of peace would mean a financial panic in the United States and prolonged business depression. Those who hold such an idea fail to take into consideration the enormous demands which the world will make on all means of production to restore the ruin wrought by the years of war. They overlook the fact that while the war has been going on, the enterprises of peace have been stationary in nearly every country of the world. Houses, railways, mills and machinery have been wearing out and require replacement. It will require years to restore to normal condition the facilities for production in the industrial centers of Europe. To supply the needs of Asia, Africa and South America will make great demands on the productive capacity of the United States.

It is of interest in this connection to note the prophecy of one of the foremost figures in the American steel business, Charles M. Schwab, at a dinner given in his honor in New York City on Dec. 21. Mr. Schwab explained in detail what has been for some time known in a general way, that the Bethlehem Steel Corporation, of which he is the head, has planned a building and construction program involving an outlay during the next few years of about $100,000,000. This expenditure, however, is not chiefly in the enlargement of its great ordnance plant, which is already 50% larger, according to Mr. Schwab's statement, than the famous Krupp Works at Essen. The expansion will be chiefly in facilities for the production of steel for peaceful purposes. "When our plan of improvements is completed," said Mr. Schwab, "the 25 component parts of Bethlehem Steel will consist of only 1 part ordnance making, 4 parts ship building, and 20 parts the manufacture of steel for commercial purposes." The Bethlehem corporation is already building one-third of all the ships under construction in the United States.

As to the outlook for the future, Mr. Schwab said:

> **When the war is over there will of necessity be a reduction in the demand for munition steel and there will be some recession in steel prices generally. But the domestic demand for steel rails, for buildings, and for numerous other purposes awaits only a more normal condition of trade to press forward for prompt satisfaction. Those domestic demands alone will absorb our steel capacity for many years. A period of depression will come some time and it may be severe, but it will not become acute, in my judgment, until at least three to five years after the war is ended.**

Those who lugubriously picture the United States succumbing to the competition of European rivals after the war forget the terrible handicap of debt under which all productive enterprise in those nations must hereafter struggle. They forget also the vast advantage of the United States in its unrivaled natural resources, particularly in ore and fuel. In steel and iron production the United States has left all other countries far behind. The figures quoted by Mr. Schwab in his address are significant: In 1880 the total steel production in the United States was only 1,000,000 tons. When the U. S. Steel Corporation was formed, twenty-one years later, the annual steel production was 12,000,000 tons, and many believed that we were then at the zenith of the steel business. This year the United States will produce 40,000,000 tons of steel, and Mr. Schwab declared his belief that we are as far from the zenith today as we were in 1901.

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Water Purification Safer Than Sewage Treatment

A principle that is gaining daily in recognition by sanitary engineers is that a dollar spent in water purification goes much farther toward protecting a community from the dangers of sewage pollution in its potable water supply that a dollar laid out in sewage-treatment works. This and some important related principles are well stated in a recently published report on sewage disposal at Davenport, Iowa, by John W. Alvord, consulting engineer, Chicago:

> **In general, the expenditures made for the purification of water supplies are much more effective in the proteotion afforded against epidemic diseases than the sewage-purification works established to protect the purity of the water-supplies. It is immaterial whether a city or private company operates the water-works. If the purification of a water-supply is rendered more difficult and more hazardous by reason of the fact that a city is dumping its sewage in close proximity to a water-works intake, and a water company is**

> consequently put to additional expense in order to furnish the people with a pure supply, it is only fair that the people compensate the water company in rates for such additional expense. In reality, therefore, the people pay for either water purification or sewage purification. However, a city must not contribute to the pollution of its water-supply when it can be avoided with reasonable expenditures; if it does contribute it must also assume a larger measure of the responsibility of guarding the health of the community.

It is now incumbent on engineers to persuade city authorities to accept and act on these principles.

The time will come when cities downstream from the sewage outlets of other cities will ask that the upstream city bear part of the cost of purifying their water-supplies instead of demanding sewage-treatment works. Intelligent engineers seldom design sewage-treatment works with the idea of affording much protection to public water-supplies and no matter how they are designed, it is common knowledge among engineers that sewage-treatment works are rarely operated under bacterial control.

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Another "Public Buildings" Raid on the Treasury

Every engineer knows that the cost of construction work, due to the great increase in prices of labor and materials, has reached an unprecedented level. Under these conditions, private investors and corporations alike are restricting their work to what is absolutely necessary. The New Haven R.R. Co., for example, recently issued a circular to all its officers, ordering that not only should no new construction work be undertaken but that maintenance work must be restricted to that absolutely necessary to preserve property from deterioration. Those in charge of municipal work also, in many cases at least, understand the importance of cutting down expenditures at the present time in order that work may be undertaken on a liberal scale when the tide has turned. At that time it will be possible to accomplish far more for a given expenditure and at the same time to give employment to labor, which may then need employment badly.

The Congress of the United States, however, is unmindful of these things. A House Committee has reported a bill appropriating $35,000,000 for the construction of public buildings in the United States and the purchase of sites therefor. The bulk of this money is to be spent for the construction of post-office buildings in small villages scattered throughout the country, many of them places of only 1,000 to 2,000 inhabitants.

The raid on the public treasury known as the Public Buildings bill began a number of years ago in a comparatively modest way; but it has rapidly grown bigger and more dangerous year by year. In the last dozen years something like $190,000,000 has been appropriated by Congress for the construction of public buildings. The pending bill is for about $35,000,000 and is likely to have $5,000,000 to $10,000,000 added to it by the time it passes out of the hands of the Senate. Every one of these Government buildings erected in a country town forms a foundation for demands upon the Congressman by rival towns in the district that similar buildings should be erected to ornament them.

In making the appropriations for these buildings, the scale of expenditure is not at all what is needed to properly accommodate the post-office business of the community, but is merely how large a sum can the Congressman secure.

This scandal was investigated in 1913 by a Public Buildings Commission which had among its members Secretary of the Treasury McAdoo, Attorney-General Reynolds, and Postmaster-General Burleson. This commission reported that the post-office buildings which the Government had erected in the smaller towns were so extravagant in cost compared with the rented buildings formerly occupied that the operating expenses of the building alone (to say nothing of the interest and depreciation) amounted to three or four times as much as it formerly cost for rent and care when the post office was in a rented building. This waste in public buildings therefore, means not only taking $35,000,000 out of the Federal treasury to construct buildings at a time when building is very costly but that the Government will be placed under a perpetual heavy expense to operate and maintain these buildings.

Congress proposes to undertake this outlay moreover in the face of the report of Secretary McAdoo showing that the United States treasury will face a deficit at the end of the fiscal year of $185,000,000, and at a time when the need was never greater for Government expenditure on projects of real national benefit.

At this time, too, the Government, like every other great business organization, has to face the necessity of increasing wages and salaries to enable those in its service to meet the high cost of living. Bills to accomplish this have already been introduced in Congress, and it has been estimated that absolutely necessary increases of this sort throughout the Government service will increase the nation's expenditures next year by $25,000,000. Surely, under these conditions an insistent demand should be made upon Congress from all parts of the country that the waste of the public funds in the distribution of "pork," either for public buildings or for river and harbor projects which cannot be justified by national need, must come to an end.

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Practical Bridge Decoration

There has been much talk heretofore about introducing beauty into bridge construction. Pittsburgh will do more than talk. It will spend $60,000 in an effort to achieve an artistic result in the way of combining architecture with the work of the bridge engineer. As to the degree of success of the Pittsburgh effort, every one may form his own judgment from the drawings published elsewhere in this issue. Tastes differ; but even those whose taste is not suited by the Point Bridge portal design will concede that the serious purpose and well studied efforts of the architects in this instance merit more than mere recognition.

There is sharp contrast between the original design for monumental stone portals and the present design in bronze and cast iron. No doubt the taste of many would prefer the stone portal; on the other hand the question of making a harmonious combination of a great steel structure and heavy ornamental portals of masonry overshadowing the structure itself is difficult indeed. When we are further told that the stone portals would have cost very much more than the metal ornamental work now to be constructed, we are likely to agree with the decision of the art expert in favor of the accepted design.

Letters to the Editor

Monolithic-Brick Pavements

Sir—In a notice of the new specifications of the National Paving Brick Manufacturers' Association, on p. 945 of *Engineering News,* Nov. 16, 1916, it is stated:

> The following paragraph provides for the dry mixing of one part cement to three parts sand, and it is presumed that this mixture is applied dry to the foundation concrete, although the specifications do not definitely say so. The brick are laid, rolled and grouted as in ordinary practice.

I wish to call your attention to the fact that this point is covered in Item 5, Sec. 5, of the country road specifications, the second paragraph of which reads:

> In shaping the concrete deposited from the mixer, it shall be thoroughly spaded, settled and roughly surfaced immediately ahead of the double templet. A sufficient amount of dry mixture for the thin coating shall be supplied continually between the framed templets so that in the forward movement, the rear templet shall distribute the necessary film over the entire surface, producing the required smoothness.

It is here clearly stated that the dry mix shall be applied immediately to the green concrete. This process is further explained in the note included in Item 5, treating of the "Concrete Foundation," which definitely states how this film of dry mixture becomes an integral part of the concrete.

You also state that "the brick are laid, rolled and grouted as in ordinary practice." In Item 8, Sec. 6, we tried to state very definitely how the brick pavement shall be rolled and brought to the required surface. This process differs from the ordinary practice in that we use a hand roller weighing not less than 20 lb. per inch of length, the length required being approximately 30 in. Similar provisions are made in the city street specifications under different items and sections.

WILL P. BLAIR,
Secretary, National Paving Brick
Manufacturers' Association.
Cleveland, Ohio, Nov. 18, 1916.

Patents in Municipal Contract Specifications

Sir—For many years municipal contracts have contained a clause designed to protect cities against claims for patent infringements. The plan has been to require the general contractor to assume all responsibility for defending such claims and for any cost and damages arising therefrom.

The evident original intent of such clauses was to protect cities from any patent claims which were held by other than the guarantor and with which the city was not familiar. It is doubtful whether such a standard clause in specifications would cover a direct patent obligation unless prospective bidders are notified in advance what the patent fee is, so that it may be included in contractor's bids.

The Imhoff tank has been offered to the American public for very moderate royalty fees, based on the population tributary to the tanks. It would appear to be necessary for an engineer drawing his specifications, or for a city building Imhoff tanks, either to specify the amount of the fee in the specifications and to whom it shall be paid, and to demand a receipt from the contractor before settlement for the work is made, or else to eliminate the Imhoff royalties from the general contract and so state in the specifications, at the same time specifying that the city will pay the Imhoff fee direct. Obviously, if the city pays the fee for a recognized patent claim, as covered by the contractor's bid, it (the city) should have and hold the license to operate the patented process or apparatus—the city's interest in the matter not being protected in any way, otherwise.

Singer Building, S. FISHER MILLER,
President, Pacific Flush Tank Co.[1]
New York, Nov. 23, 1916.

Patents and War!

Sir—I have no patents and do not want any, but I think you treat inventors unfairly. You encourage the boys to poach on old men's ideas. The old engineers are in the scrap pile. Employers want fresh young hothouse graduates, directors' sons, who know not how to criticize, but can marvel at their superior's ability and laugh at his jokes. The old man built structures that stand and earn dividends. They like his work, but dislike to pay him. The kid can copy his plans and make a reputation for himself if the judge will only knock out patents.

They are your subscribers and you serve them well in chuckling as you do over every patent killed. In your last issue you were happy because a filter patent was invalidated at Minneapolis, and in the same paper you wish someone would invent a water-pipe joint to be knocked out! I would invent a pipe joint if I did not have to advertise, compete with the old joint, hire lawyers, experts and detectives to dig up and expose infringements.

No one is punished for this kind of theft. If he is caught, he only has to pay the regular royalty. Judges mistake public feeling if they do not give inventors the benefit of doubts and rely upon patent-office examiners rather than experts who do not care which side of a case they are on.

Last spring I sent you a patentable idea about range finding for artillery. I wanted it published only in the interest of my three boys and others who may be exposed to artillery fire, due to the lack of engineering knowledge in the army. But you refused, because you are a "pacificist"; and I hope the first hostile shell will fall on your desk.

There you sit on Manhattan Island, an engineer, and imagine yourself safe behind the disappearing guns. Can they be elevated for a maximum range? If not, is not the defect fatal? Do you think there is something mysterious that will bluff foreigners? It is your duty to expose the weakness of those guns and to advocate laws to reorganize the army, on the theory that war is engineering, far more so than was understood last spring. It is all artillery. Infantry is now only an adjunct. You would not reject my idea at this time, especially if you could see the October minutes of the General Staff, where they gave me a resolution of commendation for it and said it was successfully tried in the great war.

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[1] American and Canadian commercial representative of Dr. Karl Imhoff, Essen, Germany.

The future successful commander must be an engineer and rely almost exclusively on artillery. He must study topography more than an engineer ever has; he must figure trajectories and fix locations by trigonometry and drafting, must understand what explosive forces he controls, muzzle velocities, atmospheric resistance, must call out the coöperation of his subordinates and keep records and data as only an engineer can do.

Strength is not in men, but in engineering. The old idea of an army is long lines of glistening bayonets, but these are out-of-date and useless. In their place are picks, shovels and grenades to hold and herd the mobs at a distance from the batteries; and it is your place to say so.

Your brother journalists who are not engineers may be excused in thinking your guns with complicated casting support are safe in a pit, that the shells will come like beams of light, on a straight line, or that all the lives and ammunition that are wasted in France cannot be avoided by science. You ought to know better.

Denver, Colo., Nov. 15, 1916. A. M. HAYNES.

[We trust no large proportion of our readers have as peculiar ideas as to the editorial conduct of *Engineering News* as those so forcibly expressed by our correspondent. Their publication, however, affords an opportunity to correct misconceptions that may have been shared by others. *Engineering News* has no quarrel with patents on real inventions. Careful reading of our columns will show that our criticisms have invariably been aimed, not at legitimate patents on bona fide inventions, but at patents that have been issued for mere variations in design, such as could have been made and have, in fact, been made by other competent engineers and for which the grant of a monopoly right is not justified.

As to his reference to the young engineer as a supplanter of the old inventor, in nine cases of ten it is the "fresh young hothouse graduate" who tries to get a paper patent on some alleged invention and occasionally, by so doing, makes a deal of trouble for the old engineer, who knows that it is the business of an engineer to solve the new problems in design that come before him as part of the day's work and that it is against public policy and unprofessional to claim a monopoly in his solution of such a problem unless he has really made an important advance in the state of the art.

To take the pipe joint for illustration, it would be extremely difficult to invent anything in the way of a new pipe joint on which a valid patent could be obtained, in view of the hundreds and thousands of pipe joints already on the patent records. What is needed is not a new invention, but a thorough scientific study of past and present practice in making pipe joints and the development of such detailed methods and improved materials that it will be possible for engineers responsible for building pipe lines to produce a much higher grade of work.

Turning now to our correspondent's remarks on military engineering, it is to be hoped that every contribution that the editors of *Engineering News* find it necessary to return to the author does not provoke such lurid wishes toward us. At least he should be more considerate of our innocent desk neighbors.

We find no record of the receipt from him of any such contribution as he describes; but if it was received, it would have been of necessity returned under a rule of over 25 years' standing that new inventions are not described in these columns until they have been actually constructed and tested.

Further than this, *Engineering News* is obliged to set certain limitations to the field that it can cover, and it can devote little space to matters of military engineering, important though that is with respect to the national security. Notwithstanding his convictions as to our "pacific" tendencies, we take pleasure in congratulating him upon the compliment to his range-finder invention and express our hearty approval of certain of his criticisms with respect to weak points in our national defense.—Editor.]

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Cost of Concrete and Other Permanent Pavements

Sir—In an editorial, with the substance of which the writer is in accord, published in your issue of Nov. 23, entitled "Blundering Road Legislation in New Jersey," you state that "with a minimum width of 18 ft., there would be at least 10,560 sq.yd. of paving to be laid per mile; and of the materials specified as permissible for the paving, concrete is the only one that could possibly be brought within this limit of expense." There is a previous statement that the permissible expenditure must be less than $13,000 per mile.

The inferences to be drawn from these statements are that an 18-ft. concrete road can be built for less than $13,000 per mile; and that if a road of any other type were to be built at this figure or under it, it would not correspond to the highest standard of construction recognized as essential to success.

The writer believes that neither of these inferences is correct. In the tenth annual report of the Board of County Commissioners of Wayne County, Michigan, just issued, the cost of a one-course road 18 ft. wide, 1.29 mi. in length, figures out at the rate of $16,120 a mile. A 15-ft. road (Canton Center Road) cost $17,380 a mile. A two-course road 3.8 mi. in length and 18 ft. wide cost $24,140 a mile, the greater cost in the latter case being attributed to the use of stone in place of gravel. In all these cases the costs do not include profit. In other words, they would undoubtedly have been greater if the road had been built under contract.

The tabulation of the bids received recently by the State Highway Department of New York, presumably based on a 16-ft. road, gives costs of from $13,000 to $20,600 and an average cost of $15,700 per mile, exclusive of overhead charges, which would bring the cost to about $17,300 per mile. A recent proposal received by the writer amounted to $19,900 per mile.

The "Tabular Digest of Some Concrete Pavements," by the Association of American Portland Cement Manufacturers, shows that the prices per square yard varied from $1.22 to $1.62, and the writer knows of a case where the price this summer has been as high as $1.74 per sq.yd. On the basis of 10,560 sq.yd. this would give costs of from $12,900 to $18,400 per mile, exclusive of the necessary grading, indicating clearly that, on account of the cost alone, concrete would have to be excluded from consideration rather than that it is the only pavement that may reasonably be considered.

The implication that other types of permanent pavement cannot be built for $13,000 or less is not justified if it is admitted that a bituminous pavement on an unyielding foundation comes within the requirements of the statute. The State Department of Highways of New York builds such roads quite extensively, and a tabulation of bids recently received gives prices ranging from $11,500 to $13,100 per mile on 36 mi. of roads. The writer has personally built many miles of permanent roads of a similar type, the cost of which did not exceed $13,000 per mile. EBERHARD J. WULFF.

Tarrytown, N. Y., Dec. 4, 1916.

[The New Jersey law referred to specifies that the roads are to be paved with "granite, asphalt or wood blocks, brick, concrete, bituminous concrete, asphalt or other pavement having a hard surface and of a durable character."

In the comment that our correspondent quotes, we did not say that these roads could be built and paved with concrete at an average cost of $13,000 per mile. We said, "of the materials specified as permissible for the paving, concrete is the only one that could possibly be brought within this limit of expense"—which is quite a different thing.

If $13,000 were spent solely on the paving of a road one mile long and 18 ft. wide, the average expenditure would be $1.23 per sq.yd. It is needless to say that paving of granite, sheet asphalt, asphalt block, wood block or brick cannot be laid at this price per square yard, and the only materials left are concrete and "bituminous concrete." According to the standard definition, "bituminous concrete" refers to a road pavement of bituminous materials and hard aggregate mixed together before placing on the roadway. Many of the roads paved with bituminous concrete by the mixing method have cost $1.50 to $2.00 or more per square yard. The cost of such roads has it is true been considerably reduced but it is doubtful whether it could be brought within the limit above stated.

The only remaining material specified is concrete. The cost data on concrete-road construction reported by a special committee to the Concrete Road Conference of last February showed average costs per square yard for concrete roads in 1915 in some of the states as follows: Connecticut, $1.13; Illinois, $1.03; Indiana, $0.98; Maryland, $1.08; Massachusetts, $0.95; Michigan, $1.10; Minnesota, $1.11; Missouri, $1.09; New Jersey, $1.23; New York, $0.98; Ohio, $1.02; Pennsylvania, $1.01.

Considering the abundance of good stone, gravel and sand in New Jersey and its nearness to the cement mills, good concrete pavements should be laid in New Jersey for about a dollar per square yard, under normal conditions in the labor and materials market, although not at the inflated scale of prices now prevailing. As stated in the article, however, other items in the cost of reconstructing the proposed roads would raise the cost per mile far above the $13,000 limit.—Editor.]

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Long-Time New York Rainfall

Sir—The articles entitled "Long-Time New York Rainfall as Basis for Sewer Design," by O. Hufeland, in your issues of Aug. 31 and Sept. 7, 1916, have been read with interest. The precipitation record of the Central Park Observatory is of great value and *Engineering News* is to be congratulated for having made it generally available to the profession. The previous publication in the progress report of the Committee on Rainfall and Runoff of the Municipal Engineers of the City of New York[1] was unknown to many engineers, and somewhat difficult to obtain. Mr. Hufeland appears to have presented the data in somewhat more detail, and his diagrams are reproduced to a larger scale than those of the Committee. It is noticeable that he presents exactly the same formulas for intensity of precipitation of various frequencies as those reported by the Committee, yet makes no reference to the Committee or its report.

Mr. Hufeland's characterization of the analysis in his first article as the "average-rate" method, particularly in connection with his statements, seems to the writer unfair. He says:

> The reasoning on which these curves are based is that storms that have occurred but once in 45 yr. will probably not occur again in a shorter period; those that have occurred twice in 45 yr. may be expected to occur every 22½ yr., etc.

Everyone knows that the occurrence of extreme rainfalls is very erratic, and that three or four extreme storms might occur in a single year. If the intensity were not equalled again for a century, the (average) frequency might be 25 yr.; but this is only a relative statement, and a similar or equal storm may occur again at once.

Mr. Hufeland's argument for what he calls the "uniform intensity" method is not very convincing. It is seldom that storms of considerable intensity maintain a uniform intensity for any considerable time; but they do occur, and their effect must be allowed for in sewer design. According to Mr. Hufeland's argument, storms in which the intensities are not substantially uniform will be left out of consideration. It is probable that most storms in which the intensities are sufficiently uniform so that anyone would use the average, would have nearly as great an effect in producing runoff as absolutely uniform storms with the same average intensities, and it is conceivable that, with certain conditions of variation of intensity and shape and slopes of the drainage district, the non-uniform rain might produce the greater runoff.

It is significant to compare the maximum intensity curves given in Mr. Hufeland's two articles. As shown in the table below, the intensity for which a drain serving a district having a 20-min. period of concentration would be designed would be only half as great, and for a 60-min. district, only about a third as great as if the "average-intensity" method were employed.

COMPARISON OF MAXIMUM INTENSITIES OF PRECIPITATION AT NEW YORK ACCORDING TO TWO METHODS

	Intensity of Precipitation, Inches per Hour	
Period Minutes	Average Intensity	Uniform Intensity
5	11.81	12.00
10	9.30	6.55
15	7.90	4.50
20	6.85	3.42
30	5.43	2.32
40	4.48	1.76
50	3.82	1.41
60	3.33	1.18

Mr. Hufeland himself confesses that he has no substitute to offer for the so-called "average-intensity" precipitation curves when it comes to the actual use to be made of them; that is, he does not argue that the "uniform-intensity" rate curve should be substituted in design. If this were to be done, the sub-mains might be of ample size, but it seems obvious that the main drains would be woefully inadequate.

CHARLES W. SHERMAN.

Boston, Mass., Dec. 18, 1916.

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[1] Proc. Munic. Engrs., New York City, 1913, p. 373.

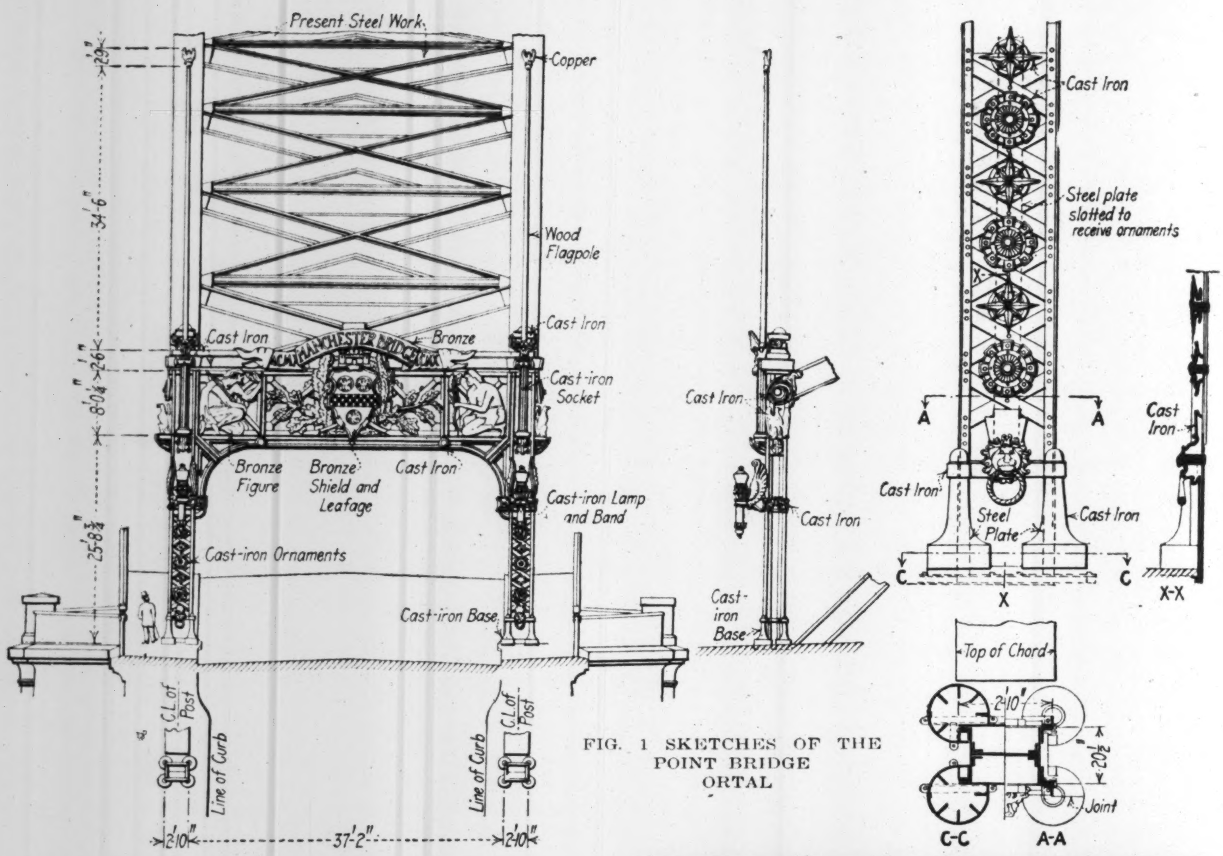
Present Steel Work
Copper
Wood Flagpole
Cast Iron
Bronze
NEW MANCHESTER BRIDGE
Cast-iron Socket
Bronze Figure
Bronze Shield and Leafage
Cast-iron Lamp and Band
Cast-iron Ornaments
Cast-iron Base
2'9"
34'6"
2'6"
8'0¼"
25'8¾"
C.L. of Post
Line of Curb
2'10"
37'2"
Steel plate slotted to receive ornaments
Steel Plate
A
C
X
X-X
Top of Chord
20½"
Joint
C-C
A-A

FIG. 1 SKETCHES OF THE POINT BRIDGE PORTAL

Elaborate Ornamental Portals for Point Bridge

Highly sculptured ornamental portals are to be added to the North Side Point Bridge, Pittsburgh, at a cost of about $60,000. Stone archway portals were designed for the structure originally, but for various reasons, principally that of cost, the stone design was abandoned. The new plans are the result of a year's study by the city's Department of Public Works, in coöperation with the Municipal Art Commission, whose approval was necessary. The general plans were shaped mainly by S. L. Roush, architect of the department, in collaboration with the sculptor selected for the work, Charles Keck, of New York City.

Several drawings and a photograph of a small-scale model of one portal are reproduced herewith. The steel portal to which the ornamental work fastens is already in place, being part of the original design. Though the bridge (two 515-ft. spans) is of regular curved-chord type, with inclined end-posts, a vertical portal was provided at each end, with posts footing over the end pins; and the top lateral system was extended out to this portal in order to deliver the wind shear to it. The steel portal was to form the central core of the ornamental stone portal, and the designers held the view that by actually transferring the wind forces to the plane of the vertical portal the stone portal would place true emphasis on a structurally vital element—namely, that which secures the stability of the bridge.

The stone portal would have concealed the steel portal, but the new cast-iron and bronze portal utilizes the

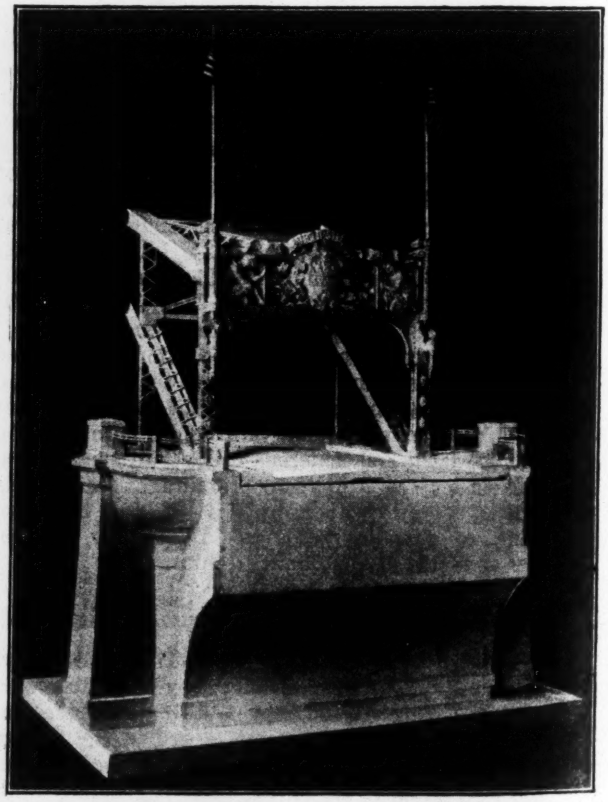

FIG. 2. PHOTOGRAPH OF MODEL MADE BY CHARLES KECK, SCULPTOR

general outline and appearance of the steel portal, with the addition of surface ornamentation. "It was the idea," states the architect, "to evolve an ornamental metal portal which would harmonize with the steel structure, all needed structural members to be shown and the ornamental parts made subordinate to them."

The evolution of the design by coöperative effort was about as follows: Sketches for various possible portals were prepared by the department and submitted to the Art Commission. The latter, after several conferences, selected the design that promised the most successful result. Fuller drawings were made for this design, and the development of the main ornamental elements was elaborated in conference with the sculptor; a ½-in. scale model was built up in the course of this work. The Art Commission passed on the model and suggested a few changes, after which contract plans were drawn up and construction contracts let. The further process will be to prepare quarter-size models for final criticism and revision, and then full-size models for the foundry's use.

The figures in the portals are intended to be based on local historical or industrial life. The finished work is expected to have not only artistic value, but also an educational effect.

The cost of the two portals is $15,100. Some changes in the present steelwork at the portals to receive the ornamental work will add about $15,000 to this figure.

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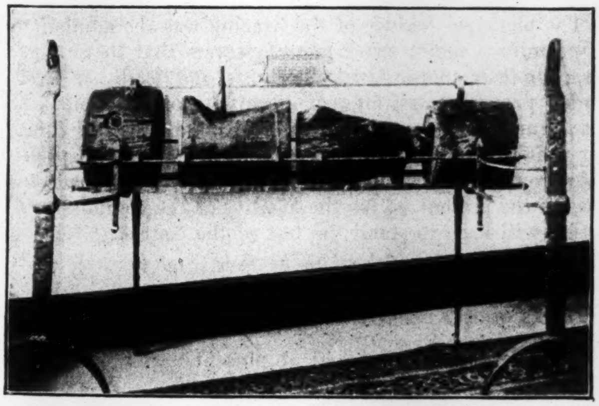
Early Water-Works Relics

Relics of New York City's early water-works continue to be unearthed in connection with the subway construction. The William St. subway, passing through the ancient part of the city, furnished the interesting relics illustrated herewith. The pieces from left to right are a service connection, a gate valve, and a bell-and-spigot joint. They were mounted as shown and presented to the Engineers Club of New York by F. J. MacIsaac, of Smith, Hauser & MacIsaac, Inc., contractors.



SERVICE-PIPE CONNECTION, GATE VALVE AND BELL-AND-SPIGOT JOINT ON OLD WOOD WATER PIPE

These are supposed to be relics of the water-distribution system of the Manhattan Co., and may have been installed in the last decade of the eighteenth century. There is a fair chance, however, that they are a part of the system of the first water-works company, which was in operation in 1776, with Christopher Colles as superintendent. This company ceased operation during the Revolution.

Screening and Disinfecting Wildwood Sewage

A plan for treating the sewage of Wildwood, a seaside town in southern New Jersey, has recently been put in operation. Fine screening followed by liquid-chlorine gas disinfection is employed. The effluent is discharged into Grassy Sound.

By treating the sewage while fresh and by a process that breaks down a comparatively small percentage of the solids, clarifies and then disinfects the sewage, it was possible to locate the plant near the cottages and other buildings served, and discharge the effluent into near-by water. This, of course, saves materially on the length of sewer pipe required.

INTERIOR OF WILDWOOD SEWAGE WORKS

Two Riensch-Wurl screens are used, each 10 ft. in diameter. The screen disks are of rolled manganese bronze, with specially cut slots for perforations $\frac{1}{16}$ in. wide by 2 in. long. The solids removed by the screens are automatically discharged into cans that are lifted by a hoist and conveyed by a trolley to a point outside the building from which they are carted away.

The sewage-treatment plant and the sewage pumps are housed in a small building, the interior of which is shown by the accompanying view. The pumping equipment consists of three 10-in. D'Olier centrifugal pumps, two of which are operated by direct-connected electric motors and one by a direct-connected gasoline engine.

The plans and specifications for the plant were prepared by Harry E. Weir, city engineer of Wildwood. James McLinden & Co., Anglesea, N. J., was general contractor. The screens were supplied and installed by the Sanitation Corporation, New York City.

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Wisconsin State-Aid Roads constructed during the present year amount to 1,158 mi., costing $3,631,026, according to A. R. Hirst, chief engineer of the State Highway Commission. Besides the roads there were 352 state-aid bridges, which cost $540,068, making a total expenditure of $4,171,094 for the season.

News of the Engineering World

Interesting Report on Ohio Topographic Survey

The recent completion of the topographic survey and map of Ohio, by the U. S. Geological Survey in coöperation with the state, marks the termination of the most extensive and rapid state topographic survey yet made in the Union.

The work was begun in 1900 and completed in 1916. The total area of the state, all mapped to the standard scale of 1 : 62,500, is 41,240 sq.mi., or more than the combined areas of Massachusetts, Rhode Island, Connecticut, New Jersey, and Maryland, which have previously completed similar topographic surveys. West Virginia has also been completely surveyed, but a large portion of its area is mapped to a scale of only 1 : 125,000.

The entire State of Ohio has been completed in 16 years. In contrast Maryland, the next largest state completed to the Government's standard scale, began coöperation in 1896 and completed the work in 1915. New York began a similar survey about 25 years ago and at the present rate will not be through for several years. Pennsylvania, which began coöperation before Ohio, is not much more than half done, while the other large states have done little more than make a good beginning.

The state's share in the coöperative survey of Ohio has for the past 15 years been under the direction of Prof. C. E. Sherman, who plans to get out a final report in four volumes.

Volume I, entitled "The Ohio-Michigan Boundary," is just out of press, and is a formal report for adoption at the forthcoming session of the legislature. The work of relocating and monumenting the boundary was done in 1915 jointly by the States of Michigan and Ohio, and the only action remaining to be taken is formal approval of the joint report now submitted by Michigan and Ohio.

Volume II, "Description of Surveying Marks and Monuments Used in Making the Topographic Survey of Ohio," will contain about 700 pages, and is printed up to page 500. This volume is a revised and edited compilation of the field notes gathered in the state by Government surveying parties, supplemented by similar notes from railroads and cities where they are sufficiently precise.

Volume III, "The Public Land Systems of Ohio," is in preparation. Since Ohio was the experimental ground for the Union in developing the present system of sectionizing public lands, the commonwealth presents more varieties of subdivision than any other state in the Union.

Volume IV, entitled "The Progress and Completion of the Ohio Topographic Survey" is planned as a popular description of the work. It will include chapters on origin of the survey, with a complete list of previous maps of the state; legislation, agreement, and expenditures; methods of surveying used; record of progress; uses of topographic maps; boundaries of the state; land and water areas, etc.

Without a single failure from the beginning to the end of the field work, the legislatures of Ohio have appropriated the necessary funds for coöperation with the Government, and the forthcoming session is expected to appropriate sufficient funds to complete the final report as above outlined.

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Final Hearing on New York Motor-Truck License Law

The New York State commission appointed by the legislature to adopt and file a schedule of fees to be paid by the owners of motor omnibuses and motor trucks held a second and final hearing in New York City, Dec. 21. The first hearing at Albany, Nov. 21, was reported in this journal, Nov. 23. Little new or of interest was developed at the second hearing. The commission has seen fit to give no inkling of what the proposed schedule is to be, and the meeting was devoted largely to a repetition of the previous arguments against any special taxation whatsoever.

A. J. Slade, of the Society of Automotive Engineers, stated that this society had studied the problem of basing fees on the "time and extent of the vehicles' use of the roads and the relative wear and tear on the roads resulting from their use" (according to the definition of the law) on four separate occasions covering several years, and that each time the task had been abandoned as impracticable. A formula for computing fees on such a basis was possible but too complicated to be generally applied.

The principal feature of the hearing was the admission of prominent motor truck manufacturers that there must be a limit to motor trucks, weights and loads, at least under present conditions of highway construction. A maximum of 14 tons was mentioned as a practical limit for weight of truck and load combined. It seemed probable from the discussion that if any attempt is made to change the present $5 fee the legality of the commission's action will have to stand the test of the courts.

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Volcano Develops 15000 Hp.

In Italy the price of coal at present varies from $40 a ton at seaports to $50 in the interior. In central Tuscany near Volterra this economic pressure has resulted in the erection of a large electric plant operated by subterranean steam from a volcano. There are here numerous cracks in the ground, from which powerful jets of steam constantly spout high into the air. These are known as *soffioni* (blowers), and for many years boric acid and borax have been extracted from the steam.

This steam is now used for generating power. According to Professor Luiggi, in *Engineering*, credit for this use of the steam on a large scale is due Prince Ginori-Conti, who has been experimenting in this district since

1903. Holes from 12 to 20 in. in diameter were bored in the ground, and pipes were driven down to the source of the steam, which is under a stratum of hard rock 300 to 500 ft. below the surface. The steam issues from these holes at pressures of two to three atmospheres and temperatures of 150° to 190° C. New borings do not seem to affect the supply, so long as the distance apart of the holes is not less than 50 ft.

It was attempted to use the steam direct to drive a 40-hp. steam engine, but the borax salts and the gases mixed with the steam, especially sulphureted hydrogen and traces of sulphuric acid, had a corrosive action on the metal parts of the engine. The difficulty was got around by applying the superheated volcanic steam to a boiler; that is, substituting it for fuel in an ordinary multitubular boiler in which steam was produced at a pressure of two atmospheres, then passed through a superheater where it was dried by volcanic-steam heat and was then used to drive a 300-hp. condensing steam turbine, directly connected to a three-phase electric generator, which supplies the works and villages around about Larderello.

This plant proved so successful that, when the war broke out and prices of coal soared, Ginori-Conti decided to carry out the work on a large scale. Three 3,000-kw. turbo-generators were ordered, from the Tosi works of Legano, designed to operate with superheated steam at 1½ atmospheres, generated in specially constructed multitubular boilers having aluminum tubes for the better utilization of heat and better resistance against corrosive action of the volcanic steam. In the boiler the steam temperature was reduced from 180° to about 120° C., and borax was extracted from the exhaust.

One of the 3,000-kw. units has been at work since January, 1916, the second since April, and the third has very recently been put into service. The three-phase electric current is generated at 4,500 volts, 50 cycles, and stepped up to 36,000 volts for transmission to Florence, Leghorn, Volterra, Grosseto and other towns in Tuscany.

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New Shop Instruction Method Tried at University

To reduce the amount of instruction necessary in the engineering shops and to save students' time, an interesting scheme of shop instruction has been worked out by William L. Dabney, shop instructor at the University of Wisconsin.

That experience gained in one line of work can be carried over into a new kind of work in the particulars in which the two are similar (the principle formulated by Prof. Edward L. Thorndike, the well-known psychologist) is the basis. The scheme worked out by Mr. Dabney picks out the points of likeness in all the machines which the students must learn in the shops and arranges the work so that the student does not have to start at the beginning in learning each new machine, but can carry over some of the experience gained in previous work.

Experimenting done on the work of students in the engineering shops at the university showed the value of the plan. The results of the experiments have been written up in the form of a thesis and later will probably be put in a form suitable for the use of all shop instructors.

Bigelow Boulevard is the name given the former Grant Boulevard, Pittsburgh, Penn. The name has been changed by a city ordinance in honor of the late Edward M. Bigelow, M. Am. Soc. C. E., who was Director of the Department of Public Works for many years. The boulevard which now bears his name was laid out and constructed during his administration.

The Air Breakwater that protects the Standard Oil pier at El Segundo, Calif., described in "Engineering News," June 22, 1916, p. 1166, was recently completed at a cost of $10,000 for the 1,700 ft. of pipe involved. The pipes are 4-in., having ¼-in. perforations 6 in. apart. A compressed-air plant furnishes air to the pipe system, and it is this air rising through the water that is intended to calm the surface sufficiently for loading or unloading the tankers.

The Old Slip South Tunnel headings were holed through on Dec. 19. This is one of the eight new rapid-transit railway tunnels being built under the East River at New York. The Old Slip pair of tunnels will connect the Seventh Avenue Subway, which extends through Varick St., West Broadway, Park Place, William St. and Old Slip, with the Brooklyn subway lines of the Interborough Rapid Transit Co.'s present subway system, via the river tunnels, Clark St. and Fulton St. The tunnel is being constructed by the Flinn-O'Rourke Co., of New York.

Completion of the Engineer Post and School of the United States Army at Washington Barracks is recommended by Gen. W. M. Black, Chief of Engineers, and estimated to cost $202,500. This includes $125,000 for an administration building (housing also laboratories, printing shop, etc.), $55,000 for completing the West barracks and moving the hospital, $20,000 for a quartermaster's corps barracks and $2,500 for a fuel shed. A $100,000 school building has already been erected. Engineer troops and officers are trained here; all items of engineer equipment for the seacoast defenses of the country and possessions are purchased and distributed from here.

A Proposed Water-Power Law to take the place of those now pending in Congress on which a deadlock seems likely was suggested to the President by Secretary Lane on Dec. 21. The proposed law reads as follows:

> The Secretary of War, the Secretary of the Interior and the Secretary of Agriculture shall compose a Water Power Commission. This commision shall have power to grant leases for the use of all public lands (including reservations) and navigable streams for the development of water power under such terms and conditions as shall be by them prescribed by general regulation, no such lease to extend for longer than 50 years.

Secretary Lane suggests that this act would eliminate all controversy in Congress over details, and by the regulations imposed the Commission could impose everything that is sought by the Ferris, Myers, Adamson or Shields bills.

Enlargement of the Bethlehem Steel Corporation was described by Charles M. Schwab at a dinner in New York on Dec. 21. In 1915 the Corporation employed 23,000 men, the total pay roll was $22,500,000 and the average earnings of each wage earner were a little over $900 per man. In 1916 the corporation employed some 70,000 men, the pay roll is about $72,000,000 per annum and the average earnings are nearly $1,200. The Corporation has undertaken to construct at a cost of $4,500,000 a plant to build 16-in. guns. In remarks by the president of the company, Eugene G. Grace, he stated that when Mr. Schwab went to Bethlehem the town had 13,000 inhabitants; today the employees of Bethlehem Steel alone are sufficient to make a city of 150,000 people. Ten years ago the annual sales of Bethlehem products were $10,000,000. Last year they were $230,000,000.

Two Iowa Railways have recently been abandoned, the Chicago, Anamosa & Northern, a line 35 mi. long in eastern Iowa, which was built in 1903-04 and never earned anything but a deficit. Two years ago the road was sold under judgment proceedings and the purchaser has now sold the entire outfit, including rails, bridges and rolling stock, for shipment to the war zone. The Atlantic, Northern & Southern Ry., in western Iowa, a 37-mi. line which was built in 1910 largely by labor contributed by the farmers living along the line, has been in financial difficulties ever since its construction. Its operation was stopped on Dec. 31, 1914. The Iowa Railroad Commission, in response to a petition by those living along the route, ordered a part of the line to be operated, but this order was annulled by both the State and Federal Courts. On Dec. 9 the Federal Court issued a decree authorizing the dismantling of the property and the sale of the rails and rolling stock.

Damage Suits Follow Dam Failure—In an endeavor to decide the liability of the City of San Diego, Calif., for the destruction of property in the Otay Valley at the time of the failure of the Lower Otay dam on Jan. 27, 1916, a test case has been filed in Los Angeles by Mrs. Mary H. James, asking for $10,763.85 for damages to her orchard. Until this suit is ended other damage suits amounting to over $500,000 will be held in abeyance. There are about 60 of these. In Mrs. James' complaint she alleges the dam was faultily constructed; the slopes of the fills were inadequate and too steep to support the dam against the rush of waters; the iron core walls of the dam and the concrete walls were of inadequate dimensions; the dam was not protected by suitable spillways; the blow-off valves were improperly constructed and the material used in the construction of the dam was of inferior quality The suit is expected to be one of the most involved and most costly ever participated in by the City of San Diego. The suit is brought in Los Angeles because of the provisions in the statutes requiring such cases to be tried outside the county in which the defendant resides.

Progress on the Calaveras Earth Dam, which will be when completed the highest earth dam in the world, was described by T. A. Elliott, engineer of the Spring Valley Water Co., before the San Francisco members of the American Society of Civil Engineers on Oct. 17. The dam when completed will contain 3,100,000 cu.yd. of material, will have a height of 240 ft. above bed rock, a crest length of 1,300 ft. and a base width of 1,300 ft. The upstream slope is 1 on 3; the downstream slope 1 on 2½. Practically all the material placed in the dam by hydraulic fill has been pumped. In only one of the eight borrow pits was the elevation sufficient for material to be carried to the dam by gravity. The material placed by hydraulic fill has been carried from 1,000 ft. to 4,500 ft. Two shifts of men per day are worked; the total force is 60 men. With this force an average of 3,600 cu.yd. of material per day has been excavated and placed in the dam, being transported an average distance of 3,000 ft. The direct cost of sluicing the first 1,000,000 cu.yd. of fill was about 25c. per cu.yd. This is the operating cost and does not include interest, overhead, superintendence, insurance or auxiliary cost of building roads, trails, camps, etc. The dam is now completed to 140-ft. elevation and contains 1,750,000 cu.yd. At the present rate of progress the dam will probably be finished in 1918. According to present indications, the total cost will be about $2,500,000. The work on the dam was described in "Engineering News" of Oct. 1, 1914, and Dec. 30, 1915.

A Patent Decision of Great Importance affecting the metallurgical industry was made by the Supreme Court of the United States on Dec. 11, sustaining patent No. 835,120 on the fotation process of mineral separation. According to the "Engineering and Mining Journal," which comments on the decision in its issues of Dec. 16 and 23, about 25,000,000 tons of ore were treated by this process in 1916, about half under license and the remainder in defiance of the patentee. The litigation over the patent has been in progress more than five years. In 1913 the District Court held the patent to be valid. This decision was reversed a year later by the Court of Appeals, and many mining companies concluded that the patent was void and therefore ceased to recognize it. Ordinarily, the Court of Appeals' decision is final. In this case appeal was taken to the Supreme Court of the United States because of the international character of the invention, the patent being owned by Englishmen and having been sustained by an appeal by the British House of Lords. An unprecedented feature in the case was that demonstrations of the patented process were made before the judges of the Supreme Court. The process covered by the patent is the so-called flotation process and its essential feature is the use of a very small amount of oil, less than 1% of the weight of the ore treated. Various other methods of ore separation by the use of oil have been previously invented and operated in which a much larger quantity of oil was used, and the essential feature of the patent now sustained is the use of an extremely minute quantity of oil, which is beaten up with the ore to form a very light froth.

PERSONALS

William H. Marshall has resigned as President and Director of the American Locomotive Co., New York City.

S. B. Taylor, Sales Manager of the S K F Ball Bearing Co., Hartford, Conn., has been elected Vice-President of the company.

L. D. Hollingsworth has been appointed Division Engineer of the Department of Public Roads of Kentucky, with headquarters at Paducah, Ky.

Henry B. Joy has resigned as chairman of the Board of Directors of the Packard Motor Co., Detroit, Mich., owing to the pressure of other work.

George F. Blackie, Engineer of Roadway and Track of the Nashville, Chattanooga & St. Louis Ry., has been promoted to be Assistant Chief Engineer.

C. P. Ross, formerly of the engineering department of the Union Pacific R.R., has been appointed Industrial Agent, with headquarters at Omaha, Neb.

Edwin G. Foster, Assistant Engineer of the Buffalo Rochester & Pittsburgh Ry., has been promoted to be Valuation Engineer, with office at Rochester, N. Y.

L. D. Busby, Chief Sanitary Inspector of the Bureau of Sanitation of Dallas, Tex., has resigned, and the office has been taken over by the Superintendent of the Street Department.

Christopher H. Snyder, M. Am. Soc. C. E., Designing and Consulting Engineer, San Francisco, Calif., has been appointed Lecturer in Civil Engineering at the University of California.

G. A. Ungar, formerly representative of the S K F Ball Bearing Co., of Hartford, Conn., in Cleveland, Detroit and Pittsburgh, has been appointed Technical Manager and Chief Engineer of the company.

Frederick G. Keyes, recently Chief Engineer of the Cooper Hewitt Electric Co., has been appointed to take charge of the research laboratory of physical chemistry at the Massachusetts Institute of Technology.

H. H. Trabue, Assistant Chief Engineer of the Nashville, Chattanooga & St. Louis Ry., with headquarters at Nashville, Tenn., has been appointed Real Estate Agent, reporting directly to the President of the company.

T. B. Shertzer, Assoc. M. Am. Soc. C. E., of the Texas Company, New York City, has been appointed City Manager of Portsmouth, Va. This position was advertised in "Engineering News" of Sept. 21, and there were 157 applicants.

William S. Murray, F. Am. Inst. E. E., has resigned as Consulting Engineer of the New York, New Haven & Hartford R.R., effective Dec. 31. From 1905 to 1914 he was in charge of the electrification of the New York division of the railway from New Haven to New York.

Otto H. Kahn, a New York City banker, has been elected a life member of the corporation of the Massachusetts Institute of Technology. The corporation of the institute now includes such well-known financial leaders as Theodore N. Vail, Frank A. Vanderlip and Coleman and Pierre du Pont.

Joseph H. O'Brien, M. Am. Soc. C. E., Managing Engineer, Westinghouse Church Kerr & Co., New York City, has been elected Vice-President of the reorganized Central Construction and Supply Co., Harrisburg, Penn., which will engage in general contracting under the name of the General Construction Corporation.

Morse W. Rew has accepted a position as assistant engineer with the Transit Commission of the City of Pittsburgh, of which E. K. Morse is the Commissioner. Since August, 1913, Mr. Rew has been an Assistant Engineer with the Cincinnati Rapid Transit Commission, and prior to this with the Boston Transit Commission.

Thomas H. Means, M. Am. Soc. C. E., of Symmes & Means, Consulting Engineer, San Francisco, Calif., has been appointed Consulting Engineer of the Anderson-Cottonwood Irrigation District, Redding, Calif., succeeding H. H. Henderson, M. Am. Soc. C. E., resigned. **E. R. Davis** has been appointed Superintending Engineer of the project.

E. W. P. Smith, Assoc. Am. Inst. E. E., for the past three years City Electrician of Cleveland, Ohio, has resigned to accept the position of Consulting Engineer of the Elliott Electric Co., Cleveland. He is a graduate of Colorado College, Colorado Springs, and has had experience with the Westinghouse Electric and Manufacturing Co. and in the mechanical department of the Lake Shore & Michigan Southern Ry.

George B. Tripp, Assoc. Am. Inst. E. E., Vice-President of the United Gas and Electric Corporation, a management company, of New York City, has reorganized and is to be President of the Central Construction and Supply Co., of Harrisburg, Penn. The new concern will be called the Central Construction Corporation and it will engage in a general contracting business. The capital is to be $600 000.

Frank B. Jewett, F. Am. Inst. E. E., former Assistant Chief Engineer of the Western Electric Co., New York City, has been made Chief Engineer to suceed C. E. Scribner, whose resignation was noted in these columns Dec. 21. He is a graduate of Throop Polytechnic Institute and of the University of Chicago, where he received a Ph.D. degree in 1902 For two years following he was an instructor at the Massachusetts Institute of Technology and then became connected with the American Telephone and Telegraph Co., where he had charge of transmission development work. In April, 1912 he was appointed Assistant Chief Engineer of the Western Electric Co.

E. R. Gayler, M. Am. Soc. C. E., Civil Engineer, United States Navy, has been appointed by the President an Engineer Advisor to direct the public-works improvements of Hayti, in accordance with the treaty recently ratified between this country and the West Indian republic. Mr. Gayler was graduated from Washington University in 1895. He entered the Navy as an Assistant Civil Engineer in 1902. His duties since then have been particularly along the lines of developing new naval stations. He did much of the pioneer work at the Naval Stations at New Orleans, Charleston, S. C.; and Pearl Harbor, Hawaii. For the last two years he has been on duty at the Navy Department in Washington in connection with the dry dock at Pearl Harbor, H. I.

OBITUARY

Otto C. Wolf, Architect and Engineer, of Philadelphia, Penn., died Dec. 19, aged 60 years.

George R. Sawyer, a civil engineer, of Pendleton, Ore., died Dec. 13. He was formerly County Engineer of Lincoln and Franklin Counties, Washington.

Harry L. Bollman, a civil and mining engineer, of Pittsburgh, Penn., died Dec. 18 at his home in that city, aged 51 years. He was graduated from the Western University of Pennsylvania (now the University of Pittsburgh) in civil engineering. After a short time with the Pittsburgh & Lake Erie R.R. he was chiefly engaged in coal-mine engineering.

Roberdeau Buchanan, Astronomer and until about five years ago Mathematician of the Nautical Almanac Office, U. S. Naval Observatory, Washington, D. C., died Dec. 18, aged 77 years. He was graduated from Lawrence Scientific School, Harvard University, in 1861. He became connected with the Nautical Almanac in 1879, and for many years made computations for it.

George S. Haley, President of the General Engineering and Management Corporation, of New York City, died Dec. 3 from injuries received by a motor truck on a New York street. He was born at Manchester, N. H., and was graduated from the University of Iowa. For a number of years he was Manager of the City Electric Co. and of the Rutland Railway, Light and Power Co., Rutland, Vt. From 1912 to June, 1916, he was Vice-President and General Manager of the Texas Power and Light Co., Dallas, Tex.

Harry C. Francis, a well-known Mechanical Engineer, of Philadelphia, Penn., died in that city Dec. 18. He was born in Philadelphia in 1842. He was graduated from the Central High School and his first engineering experience was with the Baldwin Locomotive Works. Later he was with William Sellers & Co. He is said to have had charge of engineering work in connection with the installation of the first electric street lighting in New York City. He was one of the organizers of the Kensington Engine Works, Ltd., of Philadelphia.

Thomas E. Calvert, Chief Engineer of the Chicago, Burlington & Quincy R.R., died at his home in Lincoln, Neb., on Dec. 19. He was born at Philadelphia in 1849. In 1870 he was graduated from Yale University, and in 1871 he began his railway career in the engineering department of the Chicago, Burlington & Quincy R.R. In 1875 he was made Division Engineer of the Nebraska division, and later became General Superintendent of the lines west of the Missouri River, retaining this position until 1905, when he was appointed Chief Engineer.

Henry E. Fairchild, Vice-President of the H. Wales Lines Co., Meriden, Conn., died Dec. 16. He was born in Woodbridge, Conn., in 1838, and as a youth learned the trade of a mason. In 1868 he became connected with the firm of Perkins & Lines, building contractors, of Meriden. Upon the retirement of Mr. Perkins, Mr. Fairchild became a member of the firm under the name of H. Wales Lines & Co. Later the H. Wales Lines Co. was incorporated. Mr. Fairchild was Superintendent of Construction of the company for a number of years. About eight years ago he retired from active work.

Ferdinand M. Hausling, head of the F. M. Hausling Co., building wrecking engineers and contractors, died Nov. 24. He was born in Newark, N. J., in 1860. He was educated at Heidelburg, in Germany, at Stevens Institute of Technology and at Columbia University. His first engineering experience was in mining work in Gunnison County, Colorado. After several years' experience in various branches of engineering and chemistry he became interested in building construction and demolition. He organized the F. M. Hausling Co. to scientifically tear down buildings and salvage the materials. This company removed many famous old buildings in New York City, including the former New York Life Building. He was of a scientific and analytical disposition and gave much time to a study of waterproofing methods. In 1904 he entered the field of waterproofing engineering with a process generally known as the Hausling method of waterproofing. Since then he largely devoted himself to this work, and at the time of his death was President and General Manager of the Anti-Hydro Waterproofing Co. of New York City.

ENGINEERING SOCIETIES

SOCIETY OF AUTOMOBILE ENGINEERS.

Jan. 11. Annual meeting in New York City. Secy., C. F. Clarkson, 129 West 39th St., New York.

COMPRESSED GAS MANUFACTURERS' ASSOCIATION.

Jan. 15. Fourth annual meeting in New York City. Secy., O. S. King, 120 Broadway, New York.

AMERICAN SOCIETY OF CIVIL ENGINEERS.

Jan. 17-18. Annual meeting at Society House, New York City. Secy., Charles Warren Hunt, New York.

WESTERN BRICK MANUFACTURERS' ASSOCIATION.

Jan. 20. Meeting in Kansas City, Mo. Secy., G. W. Thurston, 416 Dwight Building, Kansas City.

CANADIAN SOCIETY OF CIVIL ENGINEERS.

Jan. 23-25. Annual meeting in Montreal, Can. Secy., C. H. McLeod, 176 Mansfield St., Montreal.

ILLINOIS SOCIETY OF ENGINEERS.

Jan. 25-26. At Chicago. Secy., E. E. R. Tratman, Wheaton, Ill.

AMERICAN ROAD BUILDERS' ASSOCIATION.

Feb. 5-9. Eighth National Good Roads Show, in Boston, Mass. Secy., E. L. Powers, 150 Nassau St., New York City.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.

Feb. 7-9. Midwinter convention in New York City. Secy., F. J. Hutchinson, 33 West 39th St., New York City.

TENTH CHICAGO CEMENT SHOW.

Feb. 7-15. In Chicago. Under management of Cement Products Exhibition Co., 210 South La Salle St., Chicago.

AMERICAN CONCRETE INSTITUTE.

Feb. 8-10. In Chicago at La Salle. Secy., H. D. Hynds, 30 Broad St., N. Y.

NATIONAL BUILDERS' SUPPLY ASSOCIATION.

Feb. 12-13. In Chicago at Sherman. Secy., L. F. Desmond, 1211 Chamber of Commerce, Chicago.

WISCONSIN ENGINEERING SOCIETY.

Feb. 15-16. At Madison, Wis. Secy., L. S. Smith, 939 University Ave., Madison, Wis.

SOUTHWESTERN CONCRETE ASSOCIATION.

Feb. 19-24. Southwestern Concrete Show in Kansas City, Mo. Address Chas. A. Stevenson, 1413 W. 10th St., Kansas City.

The American Economic Association will hold its 29th annual meeting meeting in Columbus, Ohio, Dec. 27 to 30, at the Hotel Deshler. The secretary is Allyn A. Young, Cornell University, Utica, N. Y.

The Illinois Section of the American Water-Works Association will hold its next meeting at the University of Illinois, Urbana, Mar. 13 and 14. The section secretary is Edward Bartow, Director State Water Survey, Urbana.

The Mining and Metallurgical Society of America has made the following nominations for officers for 1917: For president, W. R. Ingalls, Seeley W. Mudd and H. V. Winchell; for vice-president, Waldemar Lindgren; for secretary, Louis D. Huntoon.

The Illinois Association of Members of the American Society of Civil Engineers held its annual meeting in Chicago on Dec. 11. The officers for 1917 are as follows: President, C. F. Loweth; vice-presidents, A. N. Talbot and A. S. Baldwin; secretary, E. N. Layfield, Chicago.

The American Association of Engineers will hold a national convention Feb. 8 to 10 in Chicago, at the Hotel La Salle. It is stated that work of a promotional nature will constitute the greater part of the program, which will be held under the slogan, "For the Good of the Engineer."

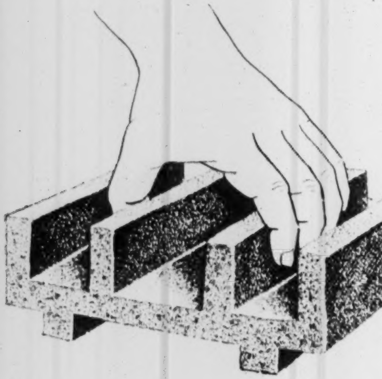
The Idaho Society of Engineers will hold its seventh annual convention in Boise, Jan. 18 to 20, in conjunction with the Operation and Maintenance Conference of the Uited States Reclamation Service, which is to be held Jan. 16 to 18. The secretary of the Idaho Society is Ira Shaffner, Boise.

The Providence (R. I.) Engineering Society was recently reorganized and its membership increased by nearly 300. Regular monthly meetings are now held either at Brown University or at Memorial Hall, while frequent meetings will be held in the club rooms, at which there will be informal discussions and talks on engineering topics of a more specialized nature. The society has been divided into five sections, all members of the society being invited to all section meetings. These sections are as follows: Fire Insurance and Fire Protection; Machine Shop; Designing and Drafting; Efficiency and Scientific Management; Structural Engineering. The president of the society is Prof. J. A. Brooks, Brown University; the vice-presidents are Robert W. Adams, George A. Carpenter, Wayland T. Robertson; the recording secretary is William A. Kennedy; corresponding secretary, Albert E. Thornley, Narragansett Machine Co., Pawtucket, R. I.; the treasurer is Alfred H. Whatley.

Appliances and Materials

Tapestry-Brick Building Tile

An interlocking channel brick with "tapestry" surface is being made by Fisk & Co., of New York and Boston, under the trade name "Fisklock." As seen from the accompanying sketch, every brick mechanically is both a header and a stretcher; a wall laid up of these tiles is in effect a double wall with a 2-in. air space between, the lower ribs and mortar filling the outer channels. For corners, window jambs, arches, belt courses, ornamental panels, etc., solid blocks of the same texture and shade are used, obviating the necessity of a variety of shapes and sizes. It is claimed that such a wall has double the strength of the solid and 125% the strength of one of hollow tile. The air cells being horizontal prevents internal air currents. Plaster may be applied directly to the inside of such walls without furring.

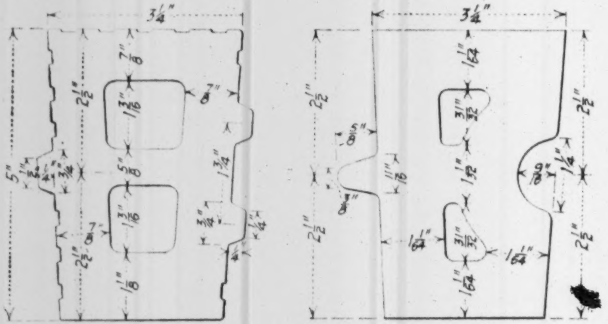


INTERLOCKING CHANNEL BRICK

* * *

California Radial Brick for Sewers

The accompanying sketches show the sectional outlines of new radial bricks being made by the Los Angeles Pressed Brick Co., of Los Angeles. The brick at the right is an improved type for storm drains, etc. The surface has roughing grooves for bonding the mortar; the tongue and groove are replaced by side buttons. The number of brick per linear foot runs from 54 for a 36-in. conduit to 90 for a 60-in.



FROST RADIAL INTERLOCKING BRICKS

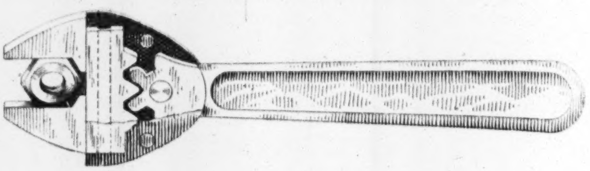
* * *

New Four-Cylinder Automobile Engine

The White Co., of Cleveland, maker of automobiles and motor trucks, announces that it has developed a new four-cylinder gasoline engine with increased power, speed, pick-up and silent operation. The prominent feature of the new engine is the use of 16 valves in place of the usual 8, making valve capacity better proportioned to cylinder displacement and rendering it unnecessary to resort to more than four cylinders for the larger powers.

Quick-Acting Wrench

A new three-piece quick-acting nut wrench has been pu out by the Cochran Pipe Wrench Co., 7800 Woodlawn Av Chicago, under the trade name "Speednut." As may be see in the accompanying sketch, one jaw is fixed and the other jaw slides in guides, being moved by a rack on it and a gear segment on the handle, which is pivoted.



COCHRAN "SPEEDNUT" WRENCH

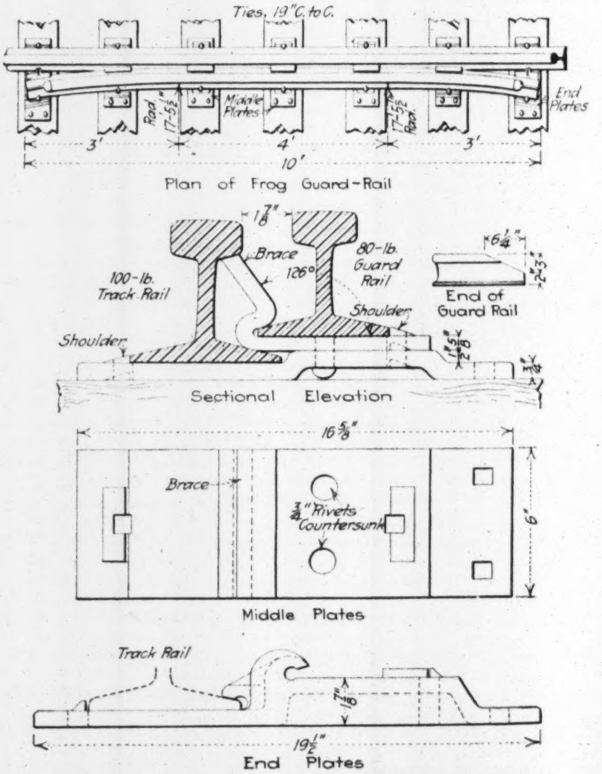
* * *

Guard-Rail Holder for Frogs and Curves

The Betts guard-rail construction shown herewith has long tie-plates with supporting chairs so arranged that the guard rail may be of less height and weight than the track rail and yet have its top ⅜ in. higher than the head of the latter. Thus, an 80-lb. guard rail may be used on track laid with 100-lb. rails. This construction is adapted for the guard rails at frogs and those used on sharp curves.

For use at frogs, as shown in the drawing, the guard rail is 10 ft. long, straight for 4 ft., and supported on seven ties, with tie-plates extending under both rails. On the three ties at the middle, this rail has the inner edge of its base held by inclined braces that fit under the head of the track rail. On the two plates at each end, it is held by a hook or lug. On each plate there are lugs to engage the outer edges of the guard rail and the track rail. The end plates also have a fastening for the metal footguards. The ends of the guard rail are cut at an incline, so as not to catch hanging break-beams, etc.

This device is being used by a number of trunk-line railways and also by such terminal lines as the Chicago Junction Ry. and the Terminal Railroad Association of St. Louis. It is manufactured by the W. M. Mitchell Co., of Louisville, Ky.



THE BETTS GUARD-RAIL CONSTRUCTION

Construction News

PRICES AND BUSINESSS OUTLOOK

During the past six months remarkable progress in finance, commerce and industry has been achieved both in production and distribution. Profits have been unprecedented and the enormous growth in foreign trade has placed this country in the foremost position in the money markets of the world. In spite of many handicaps American concerns are steadily reaching out to new markets. Prices are being readjusted in certain lines, but the decline is by no means general and in nearly all cases costs remain exceptionally high and tend to restrict buying in some quarters. That business is remarkably well sustained is proved by the fact that average bank clearings at important centers are only slightly below the corresponding figures for May. Returns of railroad earnings bear testimony to record-breaking traffic movements, while increased dividends show that investors are sharing in the general prosperity. Industrial and commercial developments are still going ahead strongly, corporate financing in June being more than twice as large as last year.

American exports for May reached a total of $472,000,000, which exceeds all previous monthly records. This is greater by $60,000,000 than the high record for March and is $300,000,000 more than the monthly May average from 1911 to 1914. The total exports for the year ending with May are an increase of 1½ billion dollars over the preceding twelve months, and double the total for the year ending with May, 1911. The imports also were the greatest on record, the total value being $229,000,000, an increase of $11,000,000 over April, which is the previous high mark. This total exceeds the monthly May average from 1911 to 1914 by $82,000,000.

The steel business still continues good, foreign buying is still very active, some of this business being due to prospective government requirements of this country. Prices in most cases continue to hold steady, as all of the larger mills are sold up for the balance of the year. In some few cases, such as structural material, plates, etc, there has been a slight drop in the market. Also some finished materials from the warehouses, which there is not a large call for, dropped somewhat in price but leading authorities do not expect any drop in mill prices for some time to come. Some of the selling agents of small metal materials going into buildings have been notified of further increases to take place some time during July. The lumber industry has quieted down, and the manufacturers are now curtailing production throughout the South and West in an endeavor to keep their stock down. Southern pine mills have cut their production about 13% and Western mills about 7%.

Following is a list of contracts awarded filed by the F. W. Dodge Co., throughout the states of New England, New York, New Jersey, Pennsylvania, Maryland, Delaware, District of Columbia, Virginia, Ohio, West Virginia, Illinois, Indiana, Iolwa, Wisconsin, Michigan, Minnesota, North and South Dakota and portions of Missouri and eastern Kansas.

January to July 1, 1916	$596,583,586
January to July 1, 1915	$413,532,600
January to July 1, 1914	$382,532,000
January to July 1, 1913	$472,572,500
January to July 1, 1912	$406,011,000
January to July 1, 1911	$416,227,813
January to July 1, 1910	$454,145,798

Contracts awarded from New York State and northern New Jersey:

January 1 to July 1, 1916	$74,922,500
January 1 to July 1, 1915	$72,558,000
January 1 to July 1, 1914	$65,926,000
January 1 to July 1, 1913	$158,017,500
January 1 to July 1, 1912	$122,328,000
January 1 to July 1, 1911	$129,784,000
January 1 to July 1, 1910	$144,918,000

These figures show that throughout the territory covered there has been a gain for the past six months of 183 million dollars over a year ago at this time, and 124 million dollars over the highest year since 1910, which is 1913. In the local territory of New York State and northern Jersey, we see a gain of about 2½ million dollars, which is more than offset by the increased cost of material and labor, bringing down the total amount of contracts awarded in this section considerably lower than it was a year ago. This makes a showing for the increased building throughout the Central States, and some of this difference in figures between 1915 and 1916 will be taken care of in this case also by the increased cost of material and labor, but still leaving a large margin over any year for the past six years. The last six months of this year should make a better showing in comparison with the first six months on account of the tremendous amount of plans filed on which construction has never started, and which ought to commence the latter part of this year, due to shading in the prices of a great many building materials.

IRON AND STEEL

Pig Iron—Below are the present quotations, with a comparison of a month and a year ago:

	July 6, 1916	One Month Ago	One Year Ago
CINCINNATI			
No. 2 Southern foundry	$16.90@17.90	$17.90@18.40	$12.50@13.00
No. 2 Northern foundry	19.76@20.26	20.26	13.75@14.25
NEW YORK			
No. 2X Northern foundry	19.75@20.25	20.50@20.75	14.25@14.50
No. 2 plain Northern foundry	19.50@20.00	20.25@20.50	13.75@14.00
No. 2 Southern foundry†	19.50@20.00	20.25@20.50	14.25
BIRMINGHAM			
No. 2 Southern foundry	14.00	15.00	10.00
CHICAGO			
No. 2 Northern foundry	19.00	19.00	13.00@13.50
PITTSBURGH			
Bessemer iron*	21.95	21.85	14.65
Basic iron*	18.95	18.95	13.55

These prices include the freight charge from the valley to the Pittsburgh district. †Delivered tidewater, New York.

Steel Rails—The following quotations are per gross ton f.o.b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	New York	Chicago
Standard bessemer rails	$33.00	$33.00
Standard openhearth rails	35.00	35.00
Light rails, 8 to 10 lb	50.00	43.00
Light rails, 12 to 14 lb	49.00	42.00
Light rails, 25 to 45 lb	47.00	40.00

Structural Material—The following are the base prices f.o.b. mill, Pittsburgh, together with the quotations per 100 lb. from warehouses at the places named:

	Pittsburgh	St. Louis	New York	Chicago	San Francisco
Beams, 3 to 15 in	$2.50@2.75	$3.15	$3.25	$3.10	$4.25
Channels, 3 to 15 in	2.50@2.75	3.15	3.25	3.10	4.25
Angles, 3 to 6 in., ¼ in. thick	2.50@2.75	3.15	3.25	3.10	4.25
Tees, 3 in. and larger	2.50@2.75	3.15	3.30	3.10	4.25
Plates	3.00@3.25	3.55	4 00	3.50	4.75

Extras on other shapes and sizes in cents per lb. are as follows:

I-beams over 15 in	.10
H-beams over 18 in	.10
Angles over 6 in., on one or both legs	10
Angles, 3 in. on one or both legs less than ¼ in. thick	.70
Tees, structural sizes (except elevator, handrail, car truck and conductor rail)	.05
Channels and tees, under 3 in. wide	.20 to .80
Handrail tees	.75
Cutting to lengths, under 3 ft. to 2 ft inclusive	.25
Cutting to lengths, under 2 ft. to 1 ft. inclusive	.50
Cutting to lengths, under 1 ft	1.55

No charge is made for cutting to lengths 3 ft. and over.

Old Material—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis and vicinity, the quotations are per net ton and cover delivery at the buyer's works, including frenght transfer charges:

	New York	
	July 6, 1916	One Month Ago
Heavy melting steel scrap	$11 75@12.25	$13.00@13.50
No. 1 railroad wrought	18.00@18.50	20.00@20.50
Stove plate	12.00@12.50	12.00@12.50
No. 1 machinery cast	16 50@17.00	17.00@17.50
Machine shop turnings	6.25@ 6.50	7.50@ 8.00
Cast borings	8.00@ 8.25	8.25@ 8.50
Railroad malleable cast	12.25@12.75	12.25@12 75

	Chicago	
	July 6, 1916	One Month Ago
No. 1 railroad wrought	$14.75lb15.25	$16 00@16.25
Stove plate	9.25@ 9.75	10.00@10.50
No. 1 machinery cast	11.50@12.00	12 00@12.75
Machine shop turnings	5.50@ 6.00	7.00@ 7.25
Cast borings	5.50@ 6.00	6.50@ 7 00
Railroad malleable cast	11.50@11.75	13.00@13.50

	St. Louis	
No. 1 railroad wrought	15.00@15.50	16.00@16.50
Stove plate	8.00@ 8.50	9.00@ 9 50
No 1 machinery cast	11.50@12.00	12.75@13.25
Machine shop turnings	5.50@ 6.00	6 75@ 7.25
Cast borings	7.50lb 8.00	6.50@ 6.75
Railroad malleable cast	11.00@11.50	12.00@12.25
Heavy melting steel scrap	$14.50@15.00	$15.75@16.00

Cast-Iron Pipe—The following are prices per net ton for carload lots:

	New York	Birmingham	Chicago	St. Louis	San Francisco
4 in.	$34.00	$29.00	$33.50	$34.00	$39.00
6 in. and over	31.00	26.00	30 50	31.00	36.00

$1 is added for gas pipe, and 16-ft. lengths are $1 per ton extra.

Bars, Concrete Reinforcing—The following quotations are per 100 lb.:

		New York		Warehouse		
In.	Mill Shipment	July 1, 1916	One Month Ago	St. Louis	Chicago	San-Francisco
¾ and larger	$2.50	$3.10	$3.10	$3.24	$3.10	$4.00
⅝	2.60	3.20	3.20	3.29	3.18	4.10
⅜	2 90	3.50	3.50	3.49	3.40	4.50
½	2.75	3.25	3.25	3.34	3.23	4.20
¼	3.25	3.85	3.85	3.74	3.75	5.00

Rivets—Price per 100 lb.:

		Warehouse			
	Mill, Pittsburgh	New York	Chicago	St. Louis	San Francisco
Structural					
¾ in. and larger	$4.00	$5.25	$3.50	$3.55	$5.40
Cone Head Boiler					
¾ in. and larger	4.10	5.35.	3.60	3.65	5.50
⅝ and $\frac{11}{16}$	4.25	5.50	3 75	3.80	5.65
½ and $\frac{9}{16}$	4.60	5.85	4.10	4.05	6.00

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take anextra of 25c.

Sheets—Quotations are in cents per pound in various cities from warehouse, also the base quotation from mill:

Blue Annealed	Large Lots, Pittsburgh	St. Louis	Chicago	San Francisco	New York
No. 10	3.00@3.25	3.45	3.25	5.00	4.25
No. 12	3.05@3.30	3.50	3.30	5.05	4.30
No. 14	3.10@3.35	3.55	3.35	5.10	4.35
Black					
Nos. 18 and 20	2.70@2.80	3.10	3.00	4.75	3.45
Nos. 22 and 24	2.75@2.85	3.15	3.05	4.80	3.50
No. 26	2.80@2.90	3.20	3.10	4.85	3.55
No. 27	2.85@2.90	3.25	3.15	4.90	3.60
No. 28	2.90@3.00	3.30	3.20	4.95	3.65
Galvanized					
No. 10	3.60@3.75	5.30	4.70	5.84	4.50
No. 12	3.70@3.85	5.30	4.70	5.89	4.50
No. 14	3.70@3.85	5.30	4.70	5.89	4.50
Nos. 18 and 20	3.95@4.10	5.30	4.90	5.23	4.80
Nos 22 and 24	4.05@4.20	5.40	5.05	6.42	4.95
No. 26	4.20@4.35	5.40	5.20	6.57	5.10
No. 27 No. 27	4.45@4.60	5.40	5.35	6.72	5.25
No. 28	4.60@4.75	5.40	5.50	6.91	5.40

Wire Rope—Discounts from list price on bright and galvanized are as follows:

	New York	St. Louis	Chicago	San Francisco
Galvanized	25—2½%	25—2½%	25—2½%	22½%
Bright	35—2½%	40—2½%	30—2½%	32½%

In New York the net prices on galvanized guy rope 7 wires to strand are as follows per 100 lb.:

Diameter, In.		Diameter, In.	
½	$4.40	1¼	$18 30
⅝	5.90	1⅜	20 80
¾	6 60	1½	25.60
⅞	9.50	1⅝	27.80
1	11.00	1¾	32.20

Triangle Mesh—Price per 100 sq.ft. for 4 in-mesh in carload lots:

		Plain				Galvanized		
Style No.	Cross-Sec. Area per Ft. Width	New York	St. Louis	Chicago	San Francisco	New York	St. Louis	San Francisco
4	0.102	$1.44	$1.54	$1.728	$1.91	$1.66	$1.76	$2.12
5	0.077	1.14	1.22	1.361	1.49	1.31	1.39	1 66
6	0.058	.90	.96	1.082	1 21	1.03	1.10	1.34
7	0.041	.70	.75	.847	.93	.81	.86	1 04
23	0.170	2.41	2.58	2.890	3 17	2.77	2.94	3.53
24	0.142	2.08	2.23	2.545	2.72	2.39	2.54	3 03
25	0.124	1.84	1.97	2.204	2 41	2.12	2.25	2.69
26	0.110	1.68	1.80	2.008	2.21	1.93	2.05	2 46
27	0.085	1.37	1.47	1.650	1 81	1.58	1.68	2.01
28	0.066	1.14	1.22	1.324	1.49	1.31	1.39	1 66
29	0 049	.94	1.01	.972	1.25	1.08	1.15	1.39
31	0.261	3.55	3.80	5.245	4.70	4.08	4.33	5.23
32	0.225	3.08	3.29	4 726	4.08	3.54	3.76	4.54
33	0.196	2.75	2.94	3.484	3.61	3.16	3.35	4.02
34	0 140	2.11	2.26	2.562	2.78	2.43	2.58	3.09
35	0.109	1.68	1.80	2.001	2.21	1.93	2.05	2.46
36	0.075	1.24	1.33	1 342	1.62	1.42	1.51	1.81
38	0.380	5.06	5.42	6.067	6.67	5.81	6.17	7.42
39	0.325	4.36	4.67	5.824	5.75	5.01	5.32	6.40
40	0.283	3.82	4.09	5.462	5.02	4.39	4.66	5.59
41	0.208	2.91	3.12	3 533	3.86	3.35	3.56	4.30
42	0.151	2.21	2.37	2.654	2.93	2.54	2.70	3.27
43	0 101	1.57	1.68	1.992	2.09	1.81	1.92	2.32

Less than carload lots this material is about 10% higher.

Track Supplies—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	Pittsburgh	Chicago	St. Louis	San Francisco
Standard railroad spikes	$2.65@2.75	$2.75@2.90	$3.35	$4.20
Track bolts	3.25@3.50	3.25@3.50	Premium	4.75
Standard section angle bars	2.00	2.00@2.50	Premium	....

Chain—Price per 100 lb.:

		New York		
In.	Chicago	July 6, 1916	One Year Ago	San Francisco
3/16	$9.40	$10.10	$7.50	$14.00
¼	6.85	7 55	4.95	10.25
5/16	5.85	6.55	3.95	9.25
⅜	5.00	6.00	3.40	7.90
7/16	5 15	5.80	3.20	7.75
½ and 9/16	5.00	5.60	3.00	7.55
⅝ and 11/16	4.90	5.50	2.90	7.25
¾ and 13/16	4.80	5.40	2.80	7.20
⅞ and 15/16	...	5.30	2.70	7.20
1 to 1¼	...	5.20	2.60	7 20

EXTRAS TO ABOVE LIST PER 100 LB.

	For BB	For BBB
3/16 in. and ¼ in.	$1.50	$2.00
5/16 in. and larger	1.25	1.75

Expanded Metal Lath—Prices per 100 yd. for painted are as follows:

		Carload			
Gage	Weight	New York	Chicago	St. Louis	San Francisco
27	233	$16.00	$16.50	$18.00	$17.50
26	250	17.00	17 50	19.00	18.75
25	300	18.00	18.50	....	20.25
24	340	19.00	19.50	21.00	21.50
22	450	22.00	22.50	....	25.00

About 10% additional for smaller quantities. For galvanized add $10, and $13 to $15 for tuncan.

Pipe—The following table shows the comparison in discounts, with th net prices in cents per foot for carload lots f.o.b. mill:

	Black		Galvanized	
	July 6, 1916	One Year Ago	July 6, 1916	One Year Ag
¾ to 2½ in. steel butt welded	70%	79%	50½%	57½
3 to 6 in. steel lap welded	68%	78%	48½%	56½
7 to 12 in. steel lap welded	65%	76%	44½%	54½
Diameter, In.				
¾	3.45	2.42	5.69	4.89
1	5 10	3.57	8.42	7.23
1½	8.25	5.78	13.61	11.69
2	11.10	7.77	18.32	15.73
2½	17.55	12.29	28.96	24 86
3	24.48	16.83	39.40	33.28
4	34.88	23.98	56.14	47.42
5	47 36	32.56	76.22	64.38
6	61.44	42.24	98.88	83 52
7	83.30	57.12	$1.321	$1.083
8	87 50	60.00	1.388	1.138
9	$1.208	82.80	1.915	1.57
10	1.442	98.88	2.287	1.875
11	1.621	$1.111	2.57	2 107
12	1.775	1.217	2.814	2.307

From warehouses at the places named, the following discounts hold for steel pipe:

	Black		Galvanized	
	New York	Chicago	New York	Chicago
3½ to 6 in. lap welded	61%	63.8%	36%	43.8
¾ to 3 in. butt welded	64%	65.8%	42%	45.8
7 to 12 in. lap welded	55%	60.8%	24%	39.8

Malleable fittings, Class B and C, from New York stock, sell at 30 and 5% from list price. Cast iron, standard size, 55%.

Steel Sheet Piling—The following price is base per 100 lb fo.b. Pittsburgh, with a comparison of a month and a year ago:

July 6, 1916	One Month Ago	One Year Ago
$2.50	$2.50	$1.60

Nails—The following quotations are per keg from warehouse:

	New York	St. Louis	Chicago	San Francisco
Wire	$3.15	$2.95	$2.85	$3.40
Cut	3.15	2.85	3.05	3.85

Freight Rates—On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

Baltimore	15.40	Minneapolis	32.90
Boston	18.90	New Orleans	30.70
Buffalo	11.60	New York	16.90
Chicago	18.90	Pacific Coast (all rail)	65.00
Cincinnati	15.80	Philadelphia	15 90
Cleveland	10.50	St. Louis	23.60
Denver	68.60	St. Paul	32.90
Birmingham	45.00	Indianapolis	17.90

CEMENT, BRICK AND STONE

Rosendale Cement—Price to dealers for 500 bbl. or over, f.o.b., including bags:

New York	$1.00

30c. allowed for bags.

Portland Cement—These prices are for barrels in carload lots in cotton bags; 10c. allowed for return of each bag:

	July 6, 1916	One Month Ago	One Year Ago
New York	$1.72	$1.72	$1.33
Jersey City	1.66	1.66	1.14
Boston	1.92	1.92	1.56
Chicago	1 81	1.81	1.51
Pittsburgh	1.81	1.81	1.45
Cleveland	1.94	1.94	...
Detroit	1.90	1.90	1.60
Indianapolis	1 94	1.94	...
Toledo	1.94	1.94	...
Milwaukee	1.93	1.93	...
Minneapolis	2.08	2.08	1.77
Duluth	1.96	1.96	1.77
Peoria	1.89	1.89	...
Cedar Rapids	2.00	2.00	...
Davenport	1.90	1.90	...
St. Louis	1.86	1.85	...
San Francisco	2.30	2.30	...

Sand and Gravel—Price for cargo or carload lots is as follows:

	Gravel			
	Paving	1½ In.	¾ In.	Sand
New York	$1.25	$0.90	$1.00	$0.50 per cu.yd.
Chicago	....	.85	.85	.85 per cu.yd.
St. Louis	....	.70	.70	.60 per cu.yd.
San Francisco	....	.75	.75	.75 per ton

Flagging—

New York	Bronx	$0 17	sq.ft.
	Manhattan	.17	sq.ft.
	Queens 5 ft. square	.18	sq.ft.
Chicago	18 in. wide	.60	lin.ft.

Crushed Stone—Price for cargo or carload lots is as follows:

	1½ In.	¾ In.	
New York	$0.85@0.90	$0.96@1.00	cu.yd.
Chicago	1.10	1.10	cu.yd.
St. Louis	1.00	1.00	cu.yd.
San Francisco	.75	.75	ton

Brick—The price per 1,000 in cargo or carload lots is as follows:

	Common	Paving
New York	$8.00	block $25.50
		brick 15.25
Chicago	6.25	brick 12 50
St. Louis, salmon	6 00	block 16.50
St. Louis, selected	9.50	
San Francisco	10 00	block 30.00

Curbing—Prices per linear foot are as follows:

	Material	
New York	5x16	$0.40
	5x20	45
Chicago	6x18	.45
St. Louis	5x16	.76
San Francisco	6x16	.65
	6x20	.75

Paving Stone—

New York	Manhattan	$2.40 sq yd.
	Other boroughs	2.15 sq.yd.
Chicago	About 4x8x5 dressed	2.15 sq.yd.
	About 4x8x5 common	1.65 sq.yd.
San Francisco	Basalt block 4x7x8	55.00 per M

MISCELLANEOUS

Railway Ties—For fair-size orders, the following prices per tie hold:

	Material	7 In. by 9 In. by 8 Ft. 6 In.	6 In. by 8 In. by 8 Ft.
New York	St. Yellow Pine	$0.95	$0.80
St. Louis	White Oak	.72	61
Chicago	White Oak	.95	.85
San Francisco	Long Fir	.75	.51

Lumber—Price within litherage limits New York by carload:
Square Edge and Sound Green

	20 Ft. and Under	22-24 Ft.	26 Ft	28 Ft.	30 Ft.	32 Ft
3x4 to 8x8	27 50	$28 50	$29 50	$29 50	$30 50	$30 50
3x10 to 10x10	28.50	29 50	30.50	30 50	31 50	31.50
3x12 to 12x12	31.50	32.50	33 50	33 50	34 50	34 50
3x14 to 6x14	33 50	34 50	35 50	35.50	36 50	36.50
7x14 to 14x14	33 50	54 50	35.50	35 50	36.50	36 50
3x16 to 6x16	35 50	36 50	38 50	38 50	40.50	39.50
7x16 to 16x16	35.50	36.50	38.50	38 50	40 50	39 50
3x18 to 8x18	37 50	38.50	40 50	40.50	42 50	42 50
8x18 to 18x18	37.50	38.50	40 50	40 50	42 50	41 50
4x20 to 20x20	40.00	41.00	43.00	45.00	45.00	45.00

Over 32 ft.—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12x12 and under; for sizes over 12x12 add $2. For merchantable add $2 to sizes 10x10 and under. For prime add $2 to the price of merchantable for all sizes.

Poles—Price of Western red cedar poles is as follows:

	New York	Chicago	Denver	St. Louis
6 in. by 30 ft	$4.77	$4.07	$3.41	$4.07
7 in. by 30 ft	5.90	5.10	4.30	5.10
7 in by 35 ft	7.85	6.85	5.90	6 85
8 in. by 35 ft	9.75	8.50	7.30	8.50
7 in. by 40 ft	9.95	8.65	7.40	8.65
8 in. by 40 ft	11.25	9.65	8.15	9.65
*8 in. by 45 ft	14.45	12.45	10.55	12.45
*8 in. by 50 ft	16.85	14.45	12.15	14.15

*10c. higher freight rates on account of double loads.

Sewer Pipe—The following prices are in cents per foot for carload lots:

	New York				
Size, In.	July 6, 1916	One Year Ago	St. Louis	Chicago	San Francisco
3	7.00	5.00	....	5.50	6.00
4	7.00	5.00	....	5.50	8.00
5	11.20	8.00	....	8.80	10 00
6	11.20	8.00	8.25	8.80	12.00
8	15.40	11.00	13.50	12.10	18.00
10	22.40	16.00	18.00	17.30	27 00
12	28.00	20.00	24.50	22.00	33.75
15	27.80	27.00	35.00	29.70	....
18	53.20	38.00	52.50	41.80	67 50
20	63.00	45.00	70.00	49.50	.87.50
22	84.00	60.00	84.00	66.00	$1.05
24	91.00	65.00	$1.00	71 50	1.25
27	$1.62	$1.35	1.30	$1.44	1.75
30	1.98	1.65	1.70	1.76	2.00
33	2.57	2.20	2.25	2.31	....
36	2 87	2.45	2.50	2.73	....

Hollow Tile—Hollow building tile price per block in cents:

	New York	St. Louis	Chicago	San Francisco
4x12x12 in.	.065	.054	.064	.08
6x12x12 in.	.091	.066	.093	.11
8x12x12 in.	.11	.09	.108	.16
10x12x12 in.	.13	.15	.127	.19
12x12x12 in	.1625	.18	.146	.22

Fireproof partition blocks price per block in cents:

	New York	St. Louis	Chicago	San Francisco
2x12x12 in.	.046	.024	.041	.055
3x12x12 in.	.046	.036	.042	.065
4x12x12 in.	.052	.048	.045	.07
6x12x12 in.	.078	.066	.061	.095
8x12x12 in.	...	.085	...	.12

Above prices are for more than carload lots.

Wood Block Paving—

Chicago	4 in. block 16 lb. treatment	$2.00 sq.yd.
St Louis	3½ in. block 16 lb. treatment	1.46 sq.yd.

Flue Lining—Price per foot in cents for carload lots:

	New York	Chicago	St. Louis	San Francisco
4½x 8½ in.	9.10	10.00	11.00	15.00
4½x13 in.	11.70	14.00	15.00	22.50
4½x18 in.	26.00	....	....	....
6 x12 in.	....	....	....	22.50
7 x 7 in.	10.40	....	....	....
8 x 8½ in.	....	14.00	14.00	20.00
8½x13 in.	16 90	18.00	18.00	27.50
8½x18 in.	23.40	30.00	28.00	40.00
12 x16 in.	....	....	....	45.00
13 x13 in.	22.10	....	....	....
13 x18 in.	31.20	40.00	40.00	52.50
14 x16 in	....	....	....	47.50
16 x16 in.	....	....	....	67.50
18 x18 in.	52.00	50.00	60.00	....

Clay Drain Tile—The following prices are per 1,000 lin.ft.:

Size, In.	New York	St. Louis	Chicago	San Francisco
3	$22.50	$16.00	$15.00	$23.00
4	32.50	18 00	18.00	36.00
5	47.50	25.00	23.00	52.50
6	57.50	35.00	27.00	76.00
8	97.50	65.00	55.00	120.00

Asphaltum—Price per ton:

	Brand	
New York	Mexican	$17.50
Chicago	Mexican	21.50
Kansas City	Mexican	20.50
Denver	California	21.50
San Francisco	California	10.50

Linseed Oil—These prices are per gallon:

	New York		Cleveland		Chicago	
	July 6, 1916	Three Months Ago	July 6, 1916	Three Months Ago	July 6, 1916	Three Months Ago
Raw in barrels	$0.67	$0 81	$0 70	$0 84	$0.67	$0 83
5-gal. cans	.77	.91	.80	.94	.77	88

White and Red Lead, in cents per pound, sell as follows:

	Red		White
	Dry	In Oil	Dry and In Oil
100-lb. keg	10.50	11.00	10 50
25- and 50-lb. kegs	10.75	11.25	10 75
12½-lb. keg	11.00	11 50	11.00
1- to 5-lb. cans	12.50	12.50	12.50

METALS

Miscellaneous Metals—The present New York quotations in cents per pound, with a comparison of practically a month and year ago, are as follows:

	July 6, 1916	One Month Ago	One Year Ago
Copper, electrolytic (carload lots)	28.00	30 00	20.50
Tin	39.00	47.00	41.00
Lead	7.00	7.50	6.00
Spelter	11.87½	15.00	18.00
ST. LOUIS			
Lead	6 85	7.35	....
Spelter	11.87½	14.75	....

Old Metals—In New York the following are the dealers' purchasing prices in cents per pound:

	New York		
	July 6, 1916	One Month Ago	One Year Ago
Copper, heavy and crucible	21.00	24 50	17.00
Copper, heavy and wire	20 00	24.00	....
Copper, light and bottoms	17 00	21.00	14 00
Lead, heavy	5.00	6.00	4.50
Lead, tea	4.50	5.50	4 00
Brass, heavy	11.75	14.25	8.50
Brass, light	9 25	11 50	10.00
No. 1 yellow rod brass turnings	12 75	15 25	....
Zinc	8 00	11.00	15.00

The Ransome Concrete Machinery Co., with executive offices at 115 Broadway, New York, and an enlarged factory at Dunellen, N. J , has just established another office at 12-18 South 12th St., St. Louis, Mo. The agent there is E. Gwynn Robinson. He will have a show room where the latest type of all kinds of mixers from the smallest bantam to the road paver will be on exhibition.

F. A. Peckham & Co., contractors' equipment, Chicago, has opened a branch office in the Leader-News Bldg., Cleveland, Ohio, to take care of its fast-growing business in that section.

O. K. Clutch and Machinery Co., Columbia, Penn., on account of its growing business, has been compelled to secure larger quarters and will soon move into a new shop in Columbia, where it will be in a position to fill orders more promptly.

Lidgerwood Manufacturing Co., 96 Liberty St., New York, has removed its Seattle offices to 66 Columbia St , Seattle, Wash.

The T. L. Smith Co. announces that its District Manager, E. R. Marker, has moved to new quarters at 609 Wells St., Milwaukee, Wis., where he will take charge of the company's business as Wisconsin representative. He will carry a stock of mixers and a complete line of contractors' supplies.

New Railway in Uruguay—A bill is before the Uruguayan Congress to provide for surveys for a new railway starting from Barra de Santa Lucia and connecting with the Northern railway, and terminating at Estacion Algorta on the Midland railway. The proposed line will pass through a rich agricultural region, which is now greatly handicapped by the lack of transportation facilities; it will also increase the use of the fine bridge over the Santa Lucia River, which is soon to be completed at a total cost of 700,000 pesos ($728,800).

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Massachusetts—Connecticut Valley St. Ry., Greenfield, will rebuild 2,000 ft. 60 lb. track with 90 lb. rail. C. W. Clapp, Greenfield, Ch. Engr.

Massachusetts—(Official)—New York, New Haven & Hartford R.R. plans enlarging cut to freight terminals, Boston. Edward Gagel, New Haven, Conn., Ch. Engr.

Pennsylvania—Pittsburgh & Butler St. Ry., Butler, plans extension on Center St.

North Carolina—Norfolk & Southern Ry. will extend line between Kinston and Snow Hill to Walstonburg or Stantonsburg. F. L. Nicholson, Norfolk, Va., Ch. Engr.

South Carolina—J. T. Roddey, Rock Hill, plans railway from Rock Hill to Spencer, 12 mi.

Alabama—W. W. Sortridge, Birmingham, interested in railway along Sand Mountain from Birmingham to Chattanooga, Tenn.

Louisiana—Southern Lumber Co., Myrtis, plans to extend line to Jefferson, Tex.

Ohio—Akron Belt Line Railroad Co. incorporated with $250,000 capital to build railway from Akron west to New London. G. Brown and E. H. Boylen, interested.

Ohio—Northern Ohio Traction Co. asked State Utilities Commission, Akron, permission to issue $15,000,000 bonds, $2,000,000 to be used for improvements at Akron, Canton and other cities. Charles Currie, Akron, Gen. Mgr.

Ohio—Detroit, Toledo & Ironton R.R. will spend $100,000 for improvements at Toledo. J. F. Frazer, Detroit, Mich., Gen. Mgr.

Indiana—Pennsylvania Lines west of Pittsburgh will extend freight yards and build car repair shop at Richmond. About $550,000. Thomas Rodd, Pittsburgh, Penn., Ch. Engr.

Illinois—Peoria Ry., Peoria, plans improving Heights line. R. F. Palmblade, Peoria, Ch. Engr.

Arkansas—R. W. Mason and S. Q. Sevier, Camden, asked City Council for franchise for railway.

Texas—Aransas Harbor Terminal Railway Co., Aransas Pass, plans improvements. J. D. Wheeler, Aransas Pass, Vice-Pres.

Oklahoma—St. Louis & San Francisco R.R. plans trackage, switches, roundhouse and mechanical plant at Tulsa. About $200,000. F. G. Jonah, St. Louis, Mo., Ch. Engr.

Idaho—Oregon Short Line will extend Burley-Marshfield line 19.3 mi. to Idahome. About $150,000. E. E. Adams, New York, Consult. Engr.

Idaho—Bannock Valley, Rockland & Southern Railway Co., Pocatello, will be incorporated for railway from Michaud to Utah state line. S. E. Harris, interested.

California—Atchison, Topeka & Santa Fe Ry. will extend line south from Lindsay. C. F. W. Felt, Chicago, Ill., Ch. Engr.

California—Northwestern Pacific R.R. surveying for line from Cummiskey to Anderson Valley, 20 mi. W. S. Palmer, San Francisco, Gen. Mgr.

California—W. T. Owens, Lodi, granted franchise for railway in Lodi.

Manitoba—Canadian Pacific Ry. plans to complete line from Vantage, 7 mi. W. E. Woodhouse, Montreal, Que., Ch. Engr.

British Columbia—Provinical Government, Victoria, sold $2,000,000 bonds for Pacific Eastern Ry. John Callaghan, Vancouver, Ch. Engr.

Bids In and Contracts Awarded

Michigan—Detroit, Pontiac & Owosso Ry., Owosso, let contract line in Pontiac to DETROIT CONSTRUCTION CO. Oliver H. Lau, Detroit, interested. Noted July 29 and Oct. 21.

North Dakota—Great Northern Ry. let contract grading line from Wildrose, 36 mi., to MORRIS, SHEPARD & DAUGHERTY, St. Paul. A. H. Hogeland, St. Paul, Ch. Engr. Noted June 29.

Montana—Chicago, Milwaukee & St Paul Ry. let contract 22 mi. extension Big Blackfoot Ry. to CLIFTON, APPLEGATE & TOOLE, Spokane, Wash. C. F. Loweth, Chicago, Ill., Ch. Engr. Noted May 25.

Washington—Chicago, Milwaukee & St. Paul Ry. let contract line into timber land Twin River Tract, Olympia Peninsular, Seattle, to GRANT, SMITH & CO., Henry Bldg. C. F. Loweth, Chicago, Ch. Engr. Noted Mar. 30.

Alberta—Edmonton, Dunedan & British Columbia Ry. let contract line from Spirit River to border, 54 mi., to McPHERSON & QUIGLEY, Adams Blk., Edmonton. W. R. Smith, Edmonton, Ch. Engr.

LIGHT, HEAT AND POWER

Proposed Work

Maine, Westfield—Westfield Electric Co., incorporated with $10,000 stock, for electric-light and power plant R. J. Colbath and H. A. Anderson, Mars Hill, interested.

Mass., Quincy—City plans electric-light plant. P. T. O'Brien, City Engr.

Conn., Waterbury—United Electric Light and Water Co. making plans for power plant on Housatonic River east of Bridgeport.

N. Y., East View—(Official)—Building Commission of Westchester County, 15 Court St, White Plains, receiving bids July 13 for high-pressure water-tube boilers for Westchester County Penitentiary and Almshouse, East View. Clark, MacMullen & Riley, 101 Park Ave., New York, Consult. Engr. (See adv. June 29 issue.)

N. Y., Laconia—City voted to install electric-light system.

Penn., Pottstown—W. M. Rutter plans electric-light plant on site of grist mill.

N. C., Apex—City plans electric-light system. About $12,000.

N. C., Chapel Hill—See item under "Water-Works."

Ga., Rome—City votes July 20 on $50,000 bonds for electric-light plant. Noted May 25.

Fla., Tarpon Springs—City soon votes on bonds to install electric-light system or purchase plant of Southern Utilities Co. Noted June 15.

Ala., Decatur—City voted $50,000 bonds for electric-light plant. X. A. Kramer, Magnolia, Miss., Engr. Noted June 8.

Ala., New Decatur—City voted $50,000 bonds for electric-light and power plant. Noted June 1.

Miss., Baldwyn—City receiving bids July 12 for electric-light plant. W. A. Stocks, Mayor. Noted Apr. 13.

Ky., Perryville—Russell Bros. plans to rebuild electric-light plant.

Ohio, Bloomfield—City plans electric-light system.

Ind., Crothersville—City Council granted Frank Brady franchise for electric-light plant.

Mich., Hancock—City Council plans electric-light plant. About $50,000. C. G. Mason, City Engr.

Wis., Brookfield—City plans electric-light plant.

Wis., Marshall—City plans electric-light plant. About $70,000. Henrici, Kent & Lowry, 716 Reserve Bank Bldg., Kansas City, Mo, Engr.

Minn., Minneola—City voted bonds for transmission line from Dodge City to Minneola and new distribution in Minneola.

Neb., Bennet—Fred Steiber interested in electric-light plant in Bennet.

Mont., Fairview—Jennison Light and Power Co., Fairview, plans to extend transmission lines to Sidney.

Mont., Hinsdale—See item under "Water-Works."

Mo., Marshall—City voted $75,000 bonds for electric-light plant. Henrici, Kent & Lowry, 715 Reserve Bank Bldg., Kansas City, Engr. Noted June 22.

Tex., Terrell—Texas Power and Light Co., Dallas, plans substation in Terrell. E. Oram, Engr.

Idaho, Burley—City votes on $40,000 bond issue for extension to electric-light and water systems.

Calif., Blythe—City plans electric-light system.

Ont., Almonte—Town Council plans hydro-electric plant. About $18,000.

B. C., Edmonds—Western Canada Power Co. plans transmission lines on Cariboo Rd.

Bids In and Contracts Awarded

N. J., Newark—Splitdorf Electrical Co. let contract reinforced-concrete power house to AMERICAN CONCRETE STEEL CO, Newark.

Penn., Polk—State Institute for Feeble Minded let contract boiler house and power plant to C. F. HAMILTON, INC., Franklin, $33,217.

Miss., Flora—(Official)—City let contract electric-light system to FAIRBANKS MORSE CO. Noted June 22.

Iowa, Ft. Dodge—City let contract dam, power house, etc., in connection with hydro-electric plant to KOSS CONSTRUCTION CO., Des Moines, $80,000; machinery, MERKLE-HINES MACHINERY CO, Inter-State Bldg, Kansas City, Mo. Noted Feb. 17 and May 11.

BRIDGES

Proposed Work

N. H., Haverhill—(Official)—Town receiving bids July 8 for 3 span, 265-ft. steel bridge over Connecticut River between Haverhill, N. H., and Newbury, Vt. Storrs & Storrs, Concord, Engr.

Mass., Millbury—City making plans for concrete bridge over Blackstone Canal on Elm St. About $5,000.

Mass., Salem—(Official)—Essex County, Court House, receiving bids July 13 for rebuilding Essex Bridge over Danvers River between Salem and Beverly. M. Kimball, Comr. Noted Dec. 2. (See adv. June 29 issue.)

Mass., Westfield—City receives bids for concrete bridges over Little River on Southwick Rd., about $18,000, and Munns Brook, on Loomis St., about $6,000. J. L. Hyde, City Engr. Noted June 22.

N. Y., Bennington—Citizens vote July 6 on $22,000 bonds for bridges on Buffalo-Moscow Rd.

N. Y., Ithaca—City plans concrete bridge at Van Natta Dam. About $8,000. J. Townley, City Engr.

N. Y., Malone—Rutland R R. plans double-arch concrete bridge on Morton St About $7,500 G. T. Jarvis, Rutland, Vt, Vice-Pres. and Gen Mgr.

N. Y., Utica—City plans retaining wall along northerly approach to river bridge. Joseph Kemper, City Engr.

N. J., Singac—Passaic County receives bids for reinforced-concrete bridge over Passaic River at Singac. About $40,000. G. Ferguson, Court House, Paterson, Engr.

Penn., Athens—Superintendent of Public Grounds and Buildings, Capitol, Harrisburg, receiving bids July 11 for bridge across north branch of Susquehanna River at Athens. D A Keefe, Consult. Engr.

Penn., Hummelstown—County plans reinforced-concrete bridge over Swatara Creek at Hummelstown. About $20,000. Address County Clerk, Harrisburg.

Penn., Reading—County plans bridge at foot of Bingaman St. A. Sanders, County Engr

W. Va., Fairmont—Chamber of Commerce approved plan of City Board of Affairs for $900,000 bonds for bridges over Monongahela River.

W. Va., Parkersburg—Kanawha Traction and Electric Co. and Wood County Commissioners plan bridge above Boaz Stop.

Va., Richmond—(Official)—Richmond, Fredericksburg & Potomac R R. not to build belt-line bridge, as stated in issue of June 22.

Ga., Griffin—Southern Ry. plans new bridge on Taylor St. B. Herman, Washington, D. C., Ch. Engr. M. W. and Struct

Fla., West Palm Beach—Palm Beach County voted bonds for bridge over Lake Worth. Address County Clerk, West Palm Beach.

Miss., Pascagoula—Jackson County receiving bids Aug. 1 for bridge over West Pascagoula River. Address Chancery Clerk, Pasagoula. D U. Harris, Box 476, Mobile, Ala., Engr. Noted June 1.

La., Lake Charles—City lets contract for concrete arch bridge over Pithon Coulee in September. E. L. Gorham, City Engr. Noted June 1.

Ky., Nicholasville—Jessamine County plans bridges. Address County Clerk, Nicholasville.

Ohio, Akron—Summit County plans bridge at West Exchange St About $50,000. E. W Paul, Court House, Engr.

Ohio, Akron—County receiving bids July 12 for $66,990 bonds for bridges. U. G. High, Akron, Clk.

Ohio, Canal Dover—City plans 1,100 ft steel viaduct over tracks of Baltimore & Ohio and Pennsylvania R.R. A. Arnold, City Engr.

Ohio, Cleveland—(Official)—Cuyahoga County receiving bids July 8 for bridge work per Report 3841. W. A. Stinchcomb, County Surv. E. G. Krause, Cleveland, Clk.

Ohio, Dayton—Montgomery County receiving bids July 20 for steel bridge superstructure in Jefferson Township. W. H Aszling, Dayton, Clk.

Ohio, Hubbard—Youngstown Sheet and Tube Co. plans bridge near Andrew Hitchcock plant. About $50,000. J. A. Campbell, East Youngstown, Pres.

Ohio, Napoleon—Henry County receiving bids July 10 for bridges and walls. G. E. Rafferty, Napoleon, Audr.

Ohio, Warren—County receiving bids July 17 for Guthrie Bridge. W. L. Hoffman, Warren, Clk.

Ind., Indianapolis—Marion County sold $100,000 bonds for bridge over Fall Creek on Senate Ave. L. K Fesler, Indianapolis, Audr. Noted Feb. 24 and May 11.

Ind., Peru—(Official)—Howard and Miami Counties, Peru, receiving bids July 17 for bridge over Little Pipe Creek between 2 counties. Frank K. M'Elheny, Audr.

Mich., Marshall—City receiving bids July 11 for reinforced-concrete bridge over Kalamazoo River on South Kalamazoo Ave. About $8,000. J. D. Wright, City Recdr. Noted June 8.

Mich., Mt. Clemens—City plans bridge on South Gratiot St. About $35,000.

Mich., Saginaw—City will repair Bristol St. Bridge. About $15,000. H. H. Eymer, City Engr.

Ill., Chicago—Illinois Central R R. plans bridge and subways between 51st and 62nd St. Estimated cost, $1,000,000. A. S. Baldwin, Chicago, Ch. Engr. T. L. Thompson, Engr.-in-charge.

Ill., Chicago—City preparing plans for bridges over Chicago River at Wells, Clark and Franklin St. Thomas Pihlfeldt, 402 City Hall, Bridge Engr. Noted May 25 and June 15.

Wis., Chippewa Falls—City receiving bids July 11 for concrete arch bridge over Duncan Creek on Spring St. J. C. Hurd, City Engr.

Minn., Aitkin—County receiving bids July 14 for State Bridge No. 2233 in Spencer Township.

Minn., Appleton—County receiving bids July 10 for 2 reinforced-concrete culverts. D. P Carney, Benson, County Audr.

Minn., Benson—County receiving bids July 10 for 3 reinforced-concrete culverts. E. B. Carney, Benson, Audr.

Minn., Caribou—State plans steel bridge over Roseau River. About $5,000.

Minn., Faribault—County receiving bids July 10 for State Bridge 2286. F. M. Kaisersatt, Faribault, Audr.

Minn., Luverne—County receiving bids July 11 for 9 concrete culverts, State Rd. No. 5, 2 on State Rd. No. 2 and 3 on State Rd. No. 4.

Minn., Mantorville—County receiving bids July 10 for State Bridge 2289. George L. Taylor, County Audr.

Minn., Red Lake Falls—County receiving bids July 10 for bridge or concrete culvert. G. Dupont, Red Lake Falls, Audr.

Minn., Rich Valley—State Highway Commission, St. Paul, receiving bids July 17, 75-ft. steel truss bridge.

Minn., Shakopee—County receiving bids July 11 for bridge. A. J. Mayer, Shakopee, Audr.

Minn., Winona—County receiving bids July 11 for State Bridge No. 1509. C. W. Anding, County Audr.

Kan., Girard—Crawford County receiving bids July 24 for bridges. About $5,000. C. C. Everitt, Girard, Clk.

Kan., Pittsburg—Crawford County receiving bids July 24 for bridge over Cow Creek on West 4th St. Address County Clerk, Pittsburg.

Kan., Topeka—City made plans for 90-ft.- reinforced-concrete bridge over Shunganunga Creek. About $15,000. A. F. Young, City Engr.

Kan., Westmoreland—County receiving bids July 1 for two 260-ft. bridges over Blue River. G. H. Hungerford, Westmoreland, Clk. J. E. Williams, Engr.

S. D., Madison—City receiving bids July 12 for bridge on Egan Ave. William Rae, Audr. Noted June 22.

Mont., Sidney—County receiving bids July 13 for steel bridges. Address County Clerk, Glendive.

Mo., Springfield—Greene County receiving bids July 13 for 4 reinforced-concrete bridges. J. L. Likens, Springfield, Clk. J. R. McAfee, Engr. Noted June 15 and 29.

Mo., Springfield—Springfield Traction Co. plans viaduct and park entrance at Walnut Grove Park. About [illegible] Charles H. Guckel, Springfield, Gen.

Tex., Ft. Worth—City plans to vote on $25,000 bonds for Allen Ave. Viaduct. F. J. Von Zuben, City Engr.

Tex., Groveton—County plans bridge over Trinity River. About $60,000. Address County Clerk, Groveton.

Tex., Port Arthur—Citizens voted $22,000 bonds for bridges over Sabine Neches Canal.

Tex., Wichita Falls—County voted $80,000 bonds for bridges. Address County Clerk, Wichita Falls. Noted May 25.

Okla., Jay—Delaware County votes Aug. 1 on $50,000 bonds for bridges. Address County Clerk, Jay.

Calif., Napa—County receiving bids July 25 for concrete bridge over Conn Creek. N. W. Collins, Napa, Clk.

Calif., Petaluma—City plans $40,000 bond issue for bridge over Thompson Creek.

Calif., San Francisco—Wilbur Watson & Co., Consult. Engr., Leader News Bldg., Cleveland, Ohio, made plans for bridge over San Francisco Bay connecting San Francisco, Oakland, Berkeley and Alameda. About $40,000,000. O. E. Hotle, Chn. of Com. of 4 cities.

Ont., Kent—City soon lets contract for bridges. About $22,000. Address A. McArthur, Tupperville.

Ont., Pembroke—Plans prepared by J. T. Morris Pembroke, for bridge over Madawaska River. Estimated cost, $10,000.

Ont., Toronto—Plans prepared for steel bascule bridge over Don Diversional Channel at Cherry St. E. L. Cousins, 50 Bay St., Toronto, Ch. Engr.

B. C., Vancouver—Department of Public Works plans steel bridges over Nechaco River at Prince George and Vanderhoof. About $25,000 and $15,000 each.

Bids In and Contracts Awarded

Conn., Derby—State Highway Commission, Hartford, let contract bridge over Housatonic River between Derby and Shelton to ARTHUR McMULLEN CO., 149 Broadway, New York, $248,725. Noted June 1 and 29.

La., Winnfield—Winn Parish let contract 7 bridges to BLODGETT CONSTRUCTION CO., Kansas City. Mo.

Tenn., Jonesboro—Washington County Commissioners let contract bridge across Nolachuckey River to VINCENNES BRIDGE CO., $8,487.

Ohio, Ashland—Ashland County let contract bridge over Savannah-Vermilion Rd. in Ruggles Township to G. E. SCOTT, Norwalk, $6,744.

Ohio, Dayton—(Official)—County let contract substructure for bridge in Harrison Township to E. H. FAUVER, 3rd and Detroit St. Noted June 22.

Ohio, Galion—Crawford County let contract substructure for bridge on Columbus St. to O. C. MORROW, Galion, $2,682; superstructure, ELKHART BRIDGE AND IRON CO., Elkhart, Ind., $5,478. Noted Apr. 20.

Ohio, New Lexington—City let contract bridge over Conly Run, Broadway, to CAPITAL CONSTRUCTION CO., Columbus. Noted June 1.

Ohio, Zanesville—Baltimore & Ohio R.R. let contract bridge to NEYS & McDONALD, McDonald, Penn.

Ind., Frankfort—Clinton County let contract 5 bridges to WILLIAM J. NEES.

Mich., Benton Harbor—City let contract bridge over Paw Paw River to WALBRIDGE ENGINEERING CO., Chicago, $15,735. Noted May 11 and June 1.

Ill., St. Augustine—State Highway Department let contract bridge to R. J. DWYER.

Ill., Springfield—State Highway Department let contracts bridges in Knox County, Section B, to CAMERON, JOYCE & CO., Keokuk, $17,891; McDonough County, Section E, MILLER & HUSBAND, Springfield, $4,090.

Wis., Albany—Contract let to L. GREEN & SON for 4 concrete bridges.

Wis., New Richland—Contract let to M. LYNCH for bridge work over Miller Creek in Lakeland.

Wis., Waterloo—Contract let to REDMAN BROS. for bridge over Jordan Hollow.

Minn., Mahnomen—City let contract bridge over Wild Rice River to MINNEAPOLIS BRIDGE CO., Minneapolis, $4,100.

Minn., St. Paul—City rejected only bid north spans of Mississippi St. Bridge over Great Northern Ry. Noted June 15.

Kan., Kansas City—Wyandotte County rejected bids bridges across Turkey Creek on Reidy Rd.

Wyo., Sheridan—City rejected bids for bridge over Big Goose Creek. Noted May 4 and June 8.

Mont., Glasgow—County let contract bridge over Milk River to O. E. PEPPARD, Missoula, $6,797.

Okla., Chandler—Lincoln County rejected bids for bridges and culverts. Noted May 25.

Okla., Oklahoma—Oklahoma County let contract 5 bridges to OKLAHOMA BRIDGE CO., $5,667; 1 to BOARDMAN & CO., $4,200.

WATER-WORKS

Proposed Work

Maine, Skowhegan—Trustees of Women's Reformatory receiving bids July 15 for pipe line for bringing water to building site for reformatory, 3,900 ft. C. H. Smith, Chn.

Mass., Holbrook—City receiving bids July 22 for 5,695 ft. 6-in. pipe in South St.

Conn., Hartford—Water Commissioners plan to extend main on Terryville Ave. W. S. Garde, Supt.

N. Y., Oneida—City plans water system. H. M. White, Supt.

N. J., Bloomingdale—Butler Water Co., Butler, plans to extend system from Bloomingdale to Riverdale. W. Lawler, Butler, Pres.

N. J., Bogota—Bogota Water Co. plans new pumps.

N. J., Clinton—Clinton Water and Supply Co. plans new mains to connect with Clinton Reservoir. C. Tomson, Secy. and Gen. Mgr.

N. J., Flemington—State Department of Health approved plans for extending water system. G. Davis, Engr.

N. J., Keyport—City plans to improve filter beds. R. O. Walling, Mayor.

N. J., Millville—City will issue bonds for pumping station and sewer work. W. B. Wade, City Engr. Noted Apr. 27.

Penn., Erie—(Official)—Commissioners of Water Works receiving bids July 14 for pumping engine. Chester & Fleming, Pittsburgh, Engr. See adv.)

Penn., Morrisville—City voted $27,500 bonds for filter plant. Noted Nov. 18 and June 1.

Penn., Mt. Pleasant—Mt. Pleasant Water Co. plans filter plant at Bridgeport Dam.

Penn., Quarryville—Borough plans water-works.

Penn., Summithill—Summithill Water Co. retained Farley Gannet, Engr., Telegraph Bldg., Harrisburg, to investigate improvements to system. John E. McCready, Pres.

Penn., Tarentum—Allegheny Valley Water Co. plans steel standpipe in hill district. H. M. Meberrath, Pres.

Md., Rising Sun—City plans $16,000 bond issue for water-works and paving.

N. C., Chapel Hill—Trustees of University of North Carolina will spend $42,000 for water system and electric-light and heating plant. J. B. McCrary, Atlanta, Ga., Engr.

N. C., Wilkesboro—City voted $15,000 bonds for water-works. Noted May 11.

N. C., Wilmington—City receiving bids July 19 for 500 ⅝x¾-in. water meters. T. B. Meares, City Clk.

Ga., Atlanta—Atlanta Steel Co. plans improving water system.

Ga., Cochrane—City voted $20,000 bonds to extend water-works. J. C. Urquhart, Mayor.

Ga., Lavonia—City voted $30,000 bonds for water-works. Noted Apr. 20.

Ga., Washington—City defeated $10,000 bond issue for water and sewer systems. Noted June 15.

Miss., Bayou—City receiving bids July 13 for water-works. S. H. Harris, Clk.

Miss., Potts Camp—Board of Aldermen plans $8,000 bonds for water works.

Tenn., Bristol—City plans water-works. About $160,000. Knight & Quayle, Chattanooga, Engr.

Ohio, Medina—(Official)—Village receiving bids July 10 for $25,000 bonds for water system. O. O. Vandeusen, Clk.

Ind., Leesburg—City having plans made for water-works.

Mich., Highland Park—City received plans for storage reservoir and filter plant from W. G. Hoad, Consult. Engr., University of Michigan, Ann Arbor. About $344,740. Noted Feb. 10 and Apr. 27.

Ill., Normal—(Official)—City soon receives bids for septic tank and well. About $22,000. G. C. Broyhill, Engr. Noted May 18 and June 22.

Ill., Wyanet—Citizens voted $8,000 bonds for water system. Noted Apr. 27 and June 1.

Wis., Brookfield—City plans water-works.

Wis., Shawano—Electric Light and Water-Works Commission receiving bids July 27 for concrete dam with concrete flumes, draft tube, core walls and abutments, power house and earth dike. Power Engineering Co., Corn Exchange Bldg., Minneapolis, Engr. Noted Mar. 23.

Minn., Lake City—City making plans for water-works. L. P. Wolff, 1000 Germania Life Bldg., Consult. Engr.

Kan., Lawrence—City voted $175,000 bonds to purchase water plant and will spend $200,000 for improvements. Black & Veatch, Inter-State Bldg., Kansas City, Mo., Engr. Noted May 11 and 18.

Kan., Minneola—City voted $15,000 bonds for water system.

Neb., Dixon—City voted $6,500 bonds for water-works. Noted June 1.

Neb., Johnson—City voted $9,000 bonds for water system. Noted June 15.

Neb., Ralston—City receiving bids July 10 for 10- or 8-in. well with complete standard casing and brass strainer. L. S. Packard, Clk.

Neb., Wayne—City soon votes on $12,000 bonds for extending water system. E. Murrill, Supt

Mont., Harlowton—See item under "Sewers."

Mont., Hinsdale—City contemplates bids for water system and electric-light plant. Noted Apr. 20 and June 8.

Mont., Lovell—City plans water and sewer systems. About $60,000 bonds sold.

Mont., Sheridan—City receiving bids July 14 for water system. About $28,000. G. E. Baker, Whitehall, Engr. Noted June 8 and 22.

Ark., Eudora—City plans water system.

Tex., Ft. Worth—City plans $25,000 bonds for water-works.

Tex., Kingsville—City voted $150,000 bonds for water system.

Tex., Moody—Citizens defeated $20,000 bonds for water system.

Tex., Terreii—City plans water main in North Adelaide St. C. Newman, Supt.

Tex., Troup—City receiving bids July 12 for material for water-works. J. D. Collier, City Secy. Noted Apr. 27.

Tex., Wellington—City Council plans election to vote bonds for water system.

Okla., Ardmore—City plans $65,000 bonds for extending water mains and sewers. W. H. Fraley, Supt. E. E. Elrod, Southwestern Life Bldg., Dallas, Tex., Consult. Engr. Noted June 15.

Okla., Coweta—City voted $6,000 bonds for water system.

Okla., McCloud—City votes July 10 on $15,000 bonds for water system. Benham Engineering Co., Colcord Bldg., Oklahoma, Engr. Noted June 8 and 15.

Idaho, Burley—See item under "Light, Heat and Power."

Idaho, Franklin—Citizens voted $28,000 bonds for water system.

Idaho, Minkcreek—City voted $7,600 bonds for water system.

Wash., Blaine—City will vote on bonds for water system.

Ore., Merrill—City voted $6,000 bonds for water system.

N. S., Halifax—(Official)—Mayor, City Hall, receiving bids July 19 for water meters. H. W. Johnston, City Engr. (See adv.)

Ont., Kingsville—City plans to improve pumping plant. About $16,000. G. Pearse, Clk.

Ont., Sarnia—City plans 3 filter basins at water-works. Estimated cost, $5,000. James Turner, Engr.

B. C., Maillardville—City will soon let contract for water system. About $10,000. Noted Mar. 2 and 23.

Bids In and Contracts Awarded

N. Y., New York—(Official)—Board of Water Supply let contract for buildings and miscellaneous work, Silver Lake reservoir, Staten Island, Contract 144, to P. T. COX, Manhattan Bridge Plaza, $40,923. Noted May 25 and June 22.

Penn., Philadelphia—Bureau of Water let contract electrical equipment for Shawmont and Roxborough pumping stations to F. J. BOAS, 201 North Broad St., $67,300. Noted June 22.

Tenn., Memphis—City let contracts 3 concrete reservoirs at Bayou Gayoso Pumping Station to A. DE FRANCHESCHI, $11,547, Reservoir No 4; KOEHLER BROS.-FOWLER CONSTRUCTION CO., Memphis, Reservoir Nos. 2 and 3, at $28,371 and $25,633 respectively. Noted Apr. 27.

Ohio, Cleveland—Board of Control rejected bids for 3-, 4-, 5-, 6- and 7-in. disk water meters. Noted June 15.

Ohio, Cleveland—Board of Control awarded contract ⅝-, 1-, 1½- and 2-in. disk water meters to BUFALO METER CO., $22,285. Noted June 15.

Ind., New Castle—(Official)—City let contract well to KRAUSS & SONS, Pratt and Missouri St., Indianapolis. Noted June 22.

Mich., Crystal Falls—City rejected bids for distribution system. Noted May 11 and 25.

Mich., Menominee—(Official)—City let contract filter plant and other improvements to water system to PITTSBURGH FILTER MANUFACTURING CO., Pittsburgh, $49,212. Noted June 8 and 15.

Ill., Quincy—Quincy Mining Co. let contract water system to HERMAN STENSRUD, Marquette, Mich.

Wis., Mineral Point—(Official)—City let contract pumping station to KIRST & SKIDMORE, Mineral Point, at $4,914.

Iowa, Ft. Dodge—City let contract dam to KOSS CONSTRUCTION CO., Des Moines, $80,000. Noted Apr. 27.

Minn., St. Paul—City let contract 2 coagulating basins to W. J. HOY & CO, St. Paul, $135,960. Noted May 11 and June 15.

Ark., Harrison—(Official)—Commissioners of Water District No. 1 let contract water system to PLUMEER-ADAMS CO., Springfield, Mo., $44,407. Noted June 22.

Okla., Henryetta—City let contract filter plant to F. D. MARTIN CONTRACTING CO., $10,000.

Idaho, Preston—City let contract water-works to G. A. STOWELL, Preston, $7,600.

Calif., Pasadena—City received low bid for lining Sheldon Ave. reservoir from Andrew Holloway, Pasadena, $8,574 for Clinton reinforcing and $8,231 for American reinforcing. Noted Jan. 6.

Man., Winnipeg—City let contract water mains Pine, Sargent and Wellington St. to THOMAS JACKSON & SONS.

SEWERS

Proposed Work

Maine, Skowhegan—City receiving bids July 15 for sewer on Reformatory property. Clyde H Smith, Chn. of Trustees. G. H. Webb, City Engr.

Mass., Leomister—City plans sewer system in North Leominster and Whalom sections. J. H. Johnson, Supt. St.

R. I., Woonsocket—(Official)—Sewer Commissioners receiving bids July 13 for sanitary sewers. Frank H. Mills, City Engr. (See adv., July 29 issue.) Noted June 1.

Conn., Bridgeport—(Official)—Paving and Sewer Commission, Room 2, City Hall, receiving bids July 20, for 9,400 ft of 60-, 66- and 72-in. sewer, average cut about 24 ft. A. H. Terry, City Engr. (See adv.)

N. Y., Buffalo—City sold $50,000 bonds for sewers. G. H. Norton, City Engr. Noted Nov. 25.

N. Y., New York—(Borough of Bronx)—Douglas Mathewson, Borough Pres., receiving bids July 11 for sewers in various streets.

N. Y., Warsaw—City plans election to vote on $200,000 bonds for sewers and paving.

N. J., Cranford—Cranford, Rahway, Union, Springfield, Garwood and Hillside plan joint trunk sewer and sewage-disposal plant. About $800,000.

N. J., Little Falls—Township Committee receiving bids July 12 for sewage-disposal plant. H. J. Harder, 140 Market St., Paterson, Engr. Noted Mar. 23 and June 8.

N. J., Millville—See item under "Water-Works."

N. J., Newark—(Official)—Passaic Valley Sewerage Commission, Essex Bldg., receiving bids July 18 for Section 22, Lawrence Street Branch Intercepting Sewer. Joseph H. Quigg, Clk. (See adv.) Noted June 29.

Penn., Arnold—Citizens voted $35,000 bonds for sewers and paving.

N. C., Henderson—City receiving bids July 18 for sanitary sewers and sewage-disposal plant. Anderson & Christie, Inc., Charlotte, Engr.

Ga., Cochran—City voted $15,000 bonds for sewer system. Noted Apr. 13.

Ga., Lavonia—City voted $15,000 bonds for sewers.

Ga., Washington—See item under "Water-Works."

Fla., Tampa—City receiving bids for storm sewer in Cleveland St. About $11,000. R. D. Martin, City Engr.

La., Lafayette—City plans sewer system.

Tenn., Dyersburg—See item under "Streets and Roads."

Ky., Hickman—City plans sewer system.

Ky., Marion—City plans sewer and septic tank near creek at Boston's planing mill. About $70,000.

Ohio, Cuyahoga Falls—See item under "Streets and Roads."

Ohio, Lorain—City plans sewer in Iowa Ave. C. M. Osborn, City Engr.

Ohio, Middletown—City Commission plans trunk sewer in 3rd St. About $47,500. W. C. Morrison, City Engr.

Ohio, Portsmouth—City will sell $42,000 bonds July 25 for sewers. L. A. Zucker, Audr.

Ohio, Springfield—City plans combined sewer system for North Side. About $31,000. M. J. Bahin, City Engr.

Ohio, Sylvania—City receiving bids July 12 for sewers in Ottawa, Erie and Summit St. W. J. Sherman Co., 615 Nasby Bldg., Toledo, Engr. P. Wagonlander, Clk.

Ohio, Wapakoneta—See item under "Streets and Roads."

Ohio, West Park—Village receiving bids July 24 for sanitary sewers in Lorain Ave. and Riverside Dr. Fred Feuchter, Clk. Noted Apr. 6.

Ohio, Zanesville—City plans sanitary sewer in Seventh Ward.

Ind., Peru—City plans sewers in 2nd, 3rd, Lincoln and Smith St. John Horan, City Engr.

Mich., Mason—City plans sewers in West and North St. J. E. Welsh, City Clk.

Ill., Sparta—(Official)—Board of Local Improvements receiving bids July 10 for sanitary sewers and disposal plant. About $54,680 James F. Swain, City Clk. (See adv. July 29 issue.)

Wis., Clintonville—City receiving bids July 11 for sewer in Young, Grover St. and Lincoln Ave.

Wis., Stevens Point—City plans sewers. About $20,000. E. Anthuty, City Engr.

Iowa, Oelwein—City will extend sewer system.

Minn., Mabel—City made plans for sewer system and sewage-disposal plant. John F Druar, 511 Commercial Bldg., St. Paul, Consult. Engr. Noted Apr. 27.

Minn., Madison—City voted $26,000 bonds for sewers.

Minn., Pipestone—City receiving bids July 10 for storm-water sewers. S. W. Funk, City Clk. Noted June 29.

Minn., Red Lake Falls—City receiving bids July 17 for sewers. J. Perrault, City Clk. J. A. Wallace, Crookston, Consult. Engr. Noted Mar. 30.

Kan., Belleville—City receives bids for sewer system and sewage-disposal plant. About $45,000. Black & Veatch, Kansas City, Mo., Engr. Noted Mar. 30.

Kan., Ellis—City receiving bids July 13 for sewer system. About $35,000. R. T. Payne, Clk. Black & Veatch, Interstate Bldg., Kansas City, Mo., Engr. Noted Mar. 30.

Kan., Hiawatha—City plans $20,000 bonds for sewage-disposal plant and sewer system. Black & Veatch, 507 Inter-State Bldg., Kansas City, Mo., Engr. Noted Apr. 13.

Kan., Wichita—City made plans for sanitary sewer in northeast section. About $180,000. Bert Wells, City Engr. Noted June 29.

Neb., Fremont—City plans sewage-disposal plant. About $50,000. L. M. Roessler, City Engr.

Neb., Red Cloud—City plans bond issue for sewers.

Mont., Lovell—See item under "Water-Works."

Mont., Walkerville—City making surveys for sewer system.

Mo., Salisbury—City soon votes on $25,000 bonds for sewer system. Noted May 11.

Ark., Malvern—City plans sewer system in Improvement District Nos. 12 and 13.

Tex., Bryan—City will spend $35,000 for sewage-disposal plant and sewers. A. S. Adams, City Engr.

Tex., Ft. Worth—E. T. Tyra, Mayor, W. B. Collins, State Health Officer and V. M. Ehlers, State Sanitary Engr., plan sewage-disposal plant; also election to vote on $350,000 bonds for same.

Okla., Ringling—City voted $30,000 bonds for sewers. F. C. Ingham. City Engr.

Calif., Auburn—City will soon let contract for septic tank. Noted Apr. 20 and June 22.

Calif., Los Angeles—Citizens defeated $1,800,000 for sewage-treatment plant.

Bids In and Contracts Awarded

Mass., Huntington—Board of Commissioners of Huntington Fire District let contracts sewers to FRANK D. O'CONNOR, Holyoke, and [illegible] P. STANTON, Huntington. Noted June 15.

Conn., Hartford—City let contract sewer in Tower Ave. and other streets to A. D. AMBROSIA, 601 Front St., Hartford, $18,948. Noted June 15.

N. Y., Batavia—City let contract storm sewer in Ellicott St. to THOMAS HOLIHAN, Rochester, $5,764.

N. Y., Fairview—City rejected bids for drain in 9th St.

N. Y., New York—(Borough of Manhattan)—(Official)—Low bids received June 28 for receiving basins on (a) Broadway, (b) 125th St. and 5 other streets, (c) Park Ave., from Gasparini & Deblasio, 1964 Honeywell Ave., Bronx, (a) $11,440; Melrose Construction Co., 147 East 125th St., (b) $7,465; Burnside Contracting Co., (a) $11,611; J. C. Rodgers, Jr., (a) $11,759, (b) $8,753, (c) $16,867; Patrick Reilly, (b) $8,369, (c) $16,185; Briggs & McLaughlin, (c) $17,539. Noted June 22.

N. J., Lodi—City let contract sewers and sewage works to NAPOLI & TORELLO CONSTRUCTION CO., Hackensack, $186,580. Noted June 1.

Penn., Hellertown—City let contract sewage-disposal plant to GREEN-STARR ENGINEERING CO., 1530 Chestnut St.

Va., Richmond—(Official)—City let contracts 5 sections concrete sewer along Bacon's Quarter Branch to ELKAN & TUFTS, Macon, Ga., $75,992, Section 3; A. W. MAYNARD, Richmond, $47,857, Section 4; OCEAN CONSTRUCTION CO., Richmond, $48,749, Section 5; LOUIS HANKINS, Richmond, $45,677, Section 5A; VAN DOREN BROS., Richmond, $69,470, Section 5B. Noted June 1.

Miss., McComb—City let contract sewer system and sewage-disposal plant to INLAND CONSTRUCTION CO., about $90,000. Noted June 15.

Ky., Dayton—City let contract storm sewer to J. H. CAHILL, Louisville, $97,199.

Ky., Lexington—City let contract outfall sewer to CAREY-REED CO., $26,000. Noted May 4.

Ind., Logansport—City let contract sewer system to FOULKES CONSTRUCTION CO., Terre Haute, $317,000. Noted Nov. 11.

Mich., Grand Ledge—City let contract sewer extensions to C. E. PICKENS, Grand Ledge.

Wis., Reedsburg—Board of Public Works let contract sewer in Oak and Division St. to WILLIAM MILLER.

Iowa, Grinnell—City let contract sewer in East 7th St. to J. W. TURNER IMPROVEMENT CO., Des Moines.

Iowa, Lake View—City rejected bids lateral sewers and sewage-disposal plant. E. P. Hartman, Clk. Noted May 11.

Neb., Fairbury—City let contract sewers in 4 districts to GEORGE L BLASNICK, Lincoln. About $6,000. Noted June 29.

N. D., Jamestown—City let contract sewers and sewage plant to WILLIAM DANFORTH, St. Paul, $68,500. Noted June 22.

Tex., Houston—City let contract storm sewer in Page St. to TEXAS CONSTRUCTION CO., $52,350. Noted June 29.

Tex., Houston—(Official)—Low bids received June 23 for (a) North side pumping station, (b) north side disposal plant, (c) south side disposal plant, (d) south side pumping station from Horton & Horton, (a) $33,826, (b) $186,549, (c) $109,378, (d) $26,849; H. C. Gass, (a) $35,187, (b) $193,199; Jerome Cochran, (c) $88,044, (d) $27,150; Charles S. Basham, (c) $82,602, (d) $24,279. E. E. Sands, City Engr. Noted June 15.

Mont., Harlowton—City let contract sewers and water-works to R M. BARDSEN & CO., Butte, $39,670. Noted June 8 and 29.

GARBAGE

Proposed Work

N. J., South Orange—Village Improvement Society negotiating with Board of Trustees for garbage incinerating plant.

Ga., Macon—City plans garbage disposal plant, about $12,000.

Ky., Nashville—City plans garbage disposal plant.

Mo., Joplin—City plans garbage-disposal plant. J. J. McAfee, City Engr.

Idaho, Pocatello—L. W. Phillips and associates plan garbage incinerator. About $40,000.

STREETS AND ROADS

Proposed Work

Mass., Beverly—City plans to improve Heather St. H. L. Whitney, City Engr.

Mass., Holyoke—City plans sidewalks on portion Smith St.

Mass., Malden—Common Council voted $20,000 bonds for paving portion Pleasant St.

R. I., Cranston—City sold $50,000 bonds for highways. Noted June 22.

Conn., Winchester—Board of Selectmen, Town Bldg., Winsted, receiving bids July 12, for portion concrete or bituminous road on Main St. P. J. Darcey, Chn.

N. Y., Albany—City plans improving Central Ave. and Liebet and Leedale St. F. R. Lanagan, City Engr.

N. Y., Albion—City sold $94,500 bonds for paving. Noted May 11.

N. Y., Brookhaven—Town receiving bids July 8 for 5 sections concrete pavement. C. E. Dare, Supt. of Highways. E. A. May, Patchogue, Engr.

N. Y., Buffalo—City will pave portion East North and Main St. G. H. Norton, City Engr.

N. Y., Buffalo—City receiving bids July 14 for paving Taft, Parkside, Archer, Colvin and Holden St. G. H. Norton, City Engr.

N. Y., New York—(Borough of Bronx)—Douglas Mathewson, Borough Pres., Municipal Bldg., 177th St. and 3rd Ave., receiving bids July 11, for paving portion East 193rd St. with bituminous concrete, repaving portion East 138th St. with redressed granite blocks and improving portion East 184th St.

N. Y., New York—(Borough of Brooklyn)—Park Board, Municipal Bldg., Manhattan, receiving bids July 13 for 1,900 cu.yd. trap rock and trap rock screenings to parks and parkways.

N. Y., New York—(Borough of Richmond)—Calvin D. Van Name, Borough Pres., Borough Hall, St. George, New Brighton, receiving bids July 11 for improving portion Fairmont Ave.

N. Y., North Tonawanda—City plans paving Oliver and Goundry St. with brick. Carl Gelkers, City Engr.

N. Y., Rochester—City plans to improve portions Genessee Blvd. Estimated cost, $180,000. F. T. Elwood, City Engr.

N. Y., Rochester—City plans paving Willmont St. and University Ave. with asphalt. About $18,000. F. T. Elwood, City Engr.

N. Y., Rome—City making plans paving Ridge St. with asphalt or bitulithic. About $5,000. John F. Plunkett, Engr.

N. Y., Tonawanda—City plans paving Scott St. with concrete. B. Hinkley, City Engr.

N. J., Bayonne—City Commissioners receiving bids July 11 for improving portions 22nd, 8th and 5th St. and Ave. C. with granite block concrete or asphalt. Walter L. Clarkson, City Engr.

N. J., Jersey City—City Commissioners receiving bids July 11 for improving Merritt St. M. I. Fagen, City Clk. C. A. Van Keuren, City Engr.

N. J., Lakewood—Town receiving bids July 8 for 13,433 sq.yd. paving. G. H. Hurlburt, Clk. Dermeule & Bishop, 203 Broadway, New York, Engr. Noted Feb. 17.

N. J., Oaklyn—City making plans paving various streets. Remington & Vesbury, 6th and Market St., Camden, Engr.

N. J., Somerville—Somerset County plans to improve Mt. Bethel, Oppenheim, South Branch and York Rd. and Rock Ave. and New Jersey Turnpike. Address Board of Freeholders, Somerville.

N. J., Westfield — (Official) — Town Council, Town Hall, receiving bids July 17 for improving portions Stanley, Tremont, Mountain, South and North Ave. A. W. Vars, Engr. (See adv. June 29 issue.)

N. J., Westville—City receives bids curbing and sidewalks. About $10,000. Remington & Vesbury, 6th and Market St., Camden, Engr.

Penn., Arnold—See item under "Sewers."

Penn., Ashley—City plans paving Manhattan St. F. Butts, Miners Bank Bldg., Wilkes-Barre, Engr.

Penn., Ashley—City plans repaving Main St. F. Butts, Miners Bank Bldg., Wilkes-Barre, Engr.

Penn., Birdsboro—City plans paving. W. H. Dechant & Son, Baer Bldg., Reading, Engr.

Penn., Carbondale—City plans paving Washington St. About $10,000. J. A. Saxe, City Engr.

Penn., Catasauqua—City plans paving Race St. Bascom & Sieger, Allentown Bank Bldg., Allentown, Engr.

Penn., Edwardsville—City plans paving Russell St. F. Butts, Miners Bank Bldg., Wilkes-Barre, Engr.

Penn., Harrisburg—State Highway Department receiving bids July 19 for highways in various counties.

Penn., Scranton—City Council passed ordinance to curb and pave Wyoming Ave. with sheet asphalt and stone blocks. About $21,837. W. Schunk, City Engr.

Penn., York—(Official)—City receiving bids July 14 for paving portions of various streets. C. F. W. Wallow, City Engr. (See adv. June 9 issue.)

Md., Baltimore—(Official)—State Roads Commission, 601 Garrett Bldg., receiving bids July 18 for 8 sections State Highway and 1 bridge. E. H. Zouck, Chn. (See adv.)

Md., Baltimore—City will pave portion Calvert St. with asphalt. R. M. Cooksey, City Engr.

Md., Rising Sun—See item under "Water-Works."

Md., Rockville—Montgomery County receiving bids July 18 for portion State-Aid highway along Poolesville Rd. Address County Clerk, Rockville. Noted June 15.

Md., Rockville—Montgomery County receiving bids July 11 for 5 mi. Muncasters Mill Rd. J. R. Lewis, Rockville, Pres.

Va., Bedford—Bedford County voted $75,000 bonds for roads in Forest District. Address County Clerk, Bedford.

Va., Cedar Bluff—Town will improve Main St. About $6,000.

Va., Lexington—Rockbridge County, Lexington Magisterial District, voted $10,000 bonds for roads. Address County Clerk, Lexington. Noted June 1.

W. Va., Clarksburg—County voted $100,000 bonds for roads in Lubeck District. Address County Clerk, Clargsburg.

W. Va., Keyser—Mineral County voted $200,000 bonds roads in New Creek District. Address County Clerk, Keyser. Noted June 1.

W. Va., Lewisburg—Greenbrier County, Blue Sulphur District, votes Aug. 5 on $75,000 bonds for roads. Address County Clerk, Lewisburg.

W. Va., Parkersburg—Wood County voted $100,000 bonds roads in Lubeck District. Address County Clerk, Parkersburg. Noted Apr. 27 and June 15.

N. C., Morganton—Burke County votes Aug. 17 on $50,000 bonds for roads. J. B. Holloway, Chn. Comrs.

Ga., Atlanta—Fulton County receiving bids July 15 for Paces Ferry Rd., 35,000 sq.yd.; East Paces Ferry Rd., 6,000 sq.yd.; Lakewood Ave., 13,000 sq.yd.; Mayson & Turner Rd., 25,000 sq.yd.; Hightower Rd., 19,000 sq.yd.; Zoo Dr. in Grant Park, 6,000 sq.yd. Address County Clerk, Atlanta.

Ga., Atlanta—County plans paving East Hunter St. Address County Clerk, Atlanta.

Fla., Miami—City rejected bids 54,000 sq.yd. asphalt pavement. New bids July 10. W. B. Moore, City Clk.

Fla., Monticello—Jefferson County voted $50,000 bonds for road work. Address County Commissioners, Monticello. Noted May 18.

Fla., New Smyrna—County sold $250,000 bonds for road work. Address County Clerk, De Land.

Fla., Perry—Taylor County votes July 25 on $600,000 bonds for roads. Address County Clerk, Perry.

Fla., West Palm Beach—Palm Beach County voted $55,000 bonds for roads. Address County Clerk, West Palm Beach.

Ala., Guntersville—Marshall County receiving bids Aug. 1 for improving 4 mi. Guntersville and Huntsville Rd. W. S. Keller, Montgomery, State Highway Engr.

Ala., Hamilton—Marion County receiving bids July 15 for 6⅛ mi. gravel road. M. Pearce, Hamilton, Judge of Probate.

Ala., Wetumpka—Elmore County receiving bids July 24 for roads. About $17,000. Address County Clerk, Wetumpka.

Miss., Houston—Chickasaw County votes $7,000 bonds roads in Fourth District.

Miss., Houston—Chickasaw County voted $33,000 bonds roads in First District.

Miss., Oxford—Lafayette County plans $50,000 bond issue for roads in District 4.

Miss., Port Gibson — City plans $7,200 bond issue for paving.

La., Amite — Tangipahoa Parish, Rd. District No. 3, receiving bids July 25 for 29 mi. roads. C. Buck, Independence, Chn.

La., Baton Rouge—State Legislature plans election for $15.000.000 bonds for highways. J. W. Alexander, Alexander, interested.

La., Kenner—City receives bids for paving sidewalks.

La., Natchitoches—Natchitoches County votes July 27 on $250,000 bonds for portion Jefferson Highway. Address County Clerk, Natchitoches.

La., New Orleans—State Highway Commission receiving bids July 10 for Section "H" of Hammond-Amite Highway and section Amite-Covington Highway. W. E. Atkinson, State Highway Engr.

Tenn., Benton—Polk County voted $95,000 bonds for road work. W. A. Park and C. P. Williams, Knoxville, Engr. Noted Apr. 13 and June 8.

Tenn., Brownsville—City votes $25,000 bonds for street work. N. B. Keathley, Mayor.

Tenn., Dyersburg—City receiving bids July 12 for paving and storm sewers. L. E. Carne, Mayor. Noted May 25.

Tenn., Erwin—City receiving bids July 12 for curbing, guttering and paving streets. About $23,000. C. P. Toncray, Elizabethton, Engr. Noted May 25.

Tenn., Morristown—City plans paving portion 2nd, South 2nd and Cumberland St.

Tenn., Nashville—State Highway Department plans election in August for $1,000,000 bonds for roads in various counties. A. M. Nelson, Engr.

Ky., Albany—County soon lets contracts for turnpikes. J. G. Slocum, Albany, County Clk.

Ky., Bowling Green—County receives bids for road work. M. H. Crump, County Rd Engr.

Ky., Versailles—(Official)—City Council receiving bids July 12 for 4,000 sq.yd brick paving and 1,400 ft concrete curb. C E. Collins, Drexel Bldg., Philadelphia, Penn., Engr.

Ohio, Alger—(Official)—Village receiving bids July 12 for paving 11,000 sq.yd. Main and Shadley St. Bonds will be sold same day. W. E. Myers, Kenton, Consult. Engr.

Ohio, Cincinnati—City plans improving portion Front St. Frank S. Krug, City Engr.

Ohio, Cincinnati—City receives bids for improving portion May St. Frank S. Krug, City Engr.

Ohio, Cincinnati—City plans paving Dumholter Alley with brick. Frank S. Krug, City Engr.

Ohio, Cincinnati—City Council plans $200,000 bond issue for improving Eastern Ave. F. Krug, City Engr.

Ohio, Cincinnati—City will ask $175,000 bond issue for street repairs. F. Krug, City Engr.

Ohio, Cleveland—City plans paving portion East 90th, East 126th and McBride St. Robert Hoffman, City Engr.

Ohio, Cleveland Heights—(Warrensville post office)—Village receiving bids Aug. 7 for paving, curbing and sidewalks on St. James, Demington and Roxboro St. H. H. Canfield, Clk. F. A. Pease Engineering Co., 802 Marshall Bldg., Cleveland, Engr.

Ohio, Columbus—State Highway Department receiving bids about July 15 for roads in various counties. Clinton Cowen, Columbus, Comr.

Ohio, Dayton—City making plans for paving portion Bacon St. with brick. About $8,943. Fred Eichelberger, City Engr.

Ohio, Dunkirk — (Official) — Village receiving bids July 10 for improving portion Main St. R. R. McElroy, Clk. W. E. Myers, Kenton, Engr.

Ohio, Dunkirk — (Official) — Village receiving bids July 24 for bonds for paving Main St. R. R. McElroy, Clk.

Ohio, East Liverpool—City Council passed resolution to improve East 6th St. J. C. Kelly, City Engr.

Ohio, Findlay—City estimates cost paving Frazier St., brick, $6,180, wood block, $7,384, concrete, $5,330. U. K. Stringfellow, City Engr.

Ohio, Greenfield—City lets contract brick and macadam paving about July 15. E. M. Conner, Village Clk.

Ohio, Hamilton—City receives bids about July 15 paving portion Progress Ave. About $5,500. Frank E. Weaver, City Engr. Noted June 8.

Ohio, Hamilton—City plans paving Main St. with wood block. About $44,000. Frank E. Weaver, City Engr.

Ohio, Lima—City Council passed resolution for improving portion Holmes Ave. J. I. Heffner, City Clk.

Ohio, Middletown—City receiving bids July 11 for grading portion Calumet Ave. John Kunz, Clk., City Comn.

Ohio, Mt. Vernon—(Official)—City receiving bids July 12 for improving portions East and West Burgess, Division, McKenzie, Park, Ridgely, Sugar, Lamartine and Elliott St., also Chestnut St. by sewering. G. C. Snow, Masonic Bldg., Dir. Pub. Ser. W. C. Anderson, City Engr. Noted June 1.

Ohio, New Lexington—(Official)—Village receiving bids July 24 for improving portion Madison St. F. W. Chappelear, Clk.

Ohio, Norwood—City receiving bids July 10 for paving with bitulithic wood block or brick Maple Ave. R. D. Armstrong, Dir. Pub. Ser.

Ohio, Norwood—City receiving bids July 15 for paving Ridgway Ave. brick or macadam. J. D. Schmidt, City Engr. Noted June 1.

Ohio, Painesville—City Council passed resolution to pave portion North St. Clair St. J. Crabbs, City Engr.

Ohio, Sylvania—Village receiving bids July 12 for 5,600 sq.yd. concrete pavement Blank and Indiana St. About $8,087. P. Wagonlander, Clk. Noted June 15.

Ohio, Wapakoneta — City plans paving and sewers in Middle Johnson and Water St. About $26,000. J. H. Meyer, Auglaize St., Engr.

Ohio, Warren—City plans paving North Park Ave. with brick. H. S. McKibben, City Engr.

Ohio, Warren—City Council passed resolution to improve portion East South St. H. S. McKibben, City Engr.

Ohio, West Park—(Official)—City sold $34,688 bonds for improving West Park Blvd. Fred Feuchter, Clk. Noted June 1.

Ohio, West Salem—(Official)—Village receiving bids July 15 for improving Main St. G. F. Read, Clk. Council. R. T. Scantleburry, Ashland, Engr.-in-Charge.

Ohio, Woodville—(Official)—Village receiving bids July 17 for improving portion 1st St. O. Bittinger, Clk.

Ohio, Xenia—City Council passed resolutions to curb and pave East Main, Monroe and Collier St. with brick or asphalt. Estimated cost, $70,000. J. P. Shumaker, City Engr.

Ind., Bloomington—Monroe County receiving bids July 20 for gravel roads in Bloomington, Indian Creek, Washington and Chester Townships. W. F. Kinser, Bloomington, Audr.

Ind., Evansville—Vanderburgh County receiving bids July 17 for rock road in Scott Township. C. P. Beard, Evansville, Audr.

Ind., Evansville—Vanderburgh and Warwick Counties receiving bids July 27 for county line road. C. P. Beard, Evansville, Audr. Vanderburgh County.

Ind., Ft. Wayne—Board of Public Works receiving bids July 13 for paving various streets. H. W. Becker, Clk. of Bd.

Ind., Indianapolis—Marion County receiving bids July 17 for gravel road in Center Township. L. K. Fesler, Indianapolis, Audr.

Ind., Jeffersonville—Clark County receiving bids July 17 for road in Charlestown Township. G. W. Stoner, Jeffersonville, Audr.

Mich., Grand Rapids—Kent County receiving bids July 10 for Road No. 169. Address County Clerk, Grand Rapids.

Mich., Howell—(Official)—City receiving bids July 11 for paving portion Division and Walnut St. George Champe, Toledo, Ohio, Engr. Noted May 11.

Mich., Pontiac—City receives bids about Aug. 7 for paving Wesson and Branch St. William J. Fisher, Engr.

Mich., Royal Oak—City will pave portions Washington Ave. and 4th and Main St.

Ill., Berwyn—Board of Local Improvements receiving bids July 11 for curbing, guttering and paving portion Wesley Ave.

Ill., Blue Island—City making plans for paving various streets with asphalt macadam. About $142,000. V. B. Roberts, City Engr.

Ill., Fairfield—(Official)—City receiving bids July 17 for paving in Central Paving District. John Sheehorn, Supt. St. (See adv.)

Ill., Pekin—(Official)—Bonds $1,000,000 for roads in Tazewell County proposed. J. G. Bailey, Delavan, Pres. County Good Roads Assoc.

Ill., Peru—City plans paving 9th St. with brick. S. T. Porter, La Salle, Engr.

Ill., Springfield—City will pave Capitol Ave. with creosoted blocks and widen same between 4th and 10th St. W. D. Seeley, City Engr.

Ill., Streator—City making plans for paving various streets with brick. F. Rentz, City Engr.

Ill., Wilmington—City plans sidewalks on various streets.

Ill., Winnetka—City making plans for paving 2 mi. Sheridan Rd. About $80,000. Windes & Marsh, 698 Birch St., Engr.

Wis., Hurley—County Highway Commission receives bids for grading 2 highways, about 2¾ mi., and 4 roads, 23,480 ft. Address County Clerk, Hurley.

Wis., Kenosha—Street Assessment Committee receiving bids July 21 for paving portions Pomeroy and Wisconsin St. B. C. Brennan, City Engr. Noted May 25.

Wis., Sparta—City Council passed resolution to pave portion McLean Ave.

Wis., Superior—City will sell $450,000 bonds, part to be used for paving. E. B. Banks, City Engr.

Wis., West Allis—Board of Public Works receiving bils July 15 for paving portion 75th St., concrete. A. G. Orbert, City Engr.

Iowa, Bettendorf—City plans paving. A. M. Compton, 216 Whitaker Bldg., Davenport, Engr.

Iowa, Dennison—City plans paving Railroad Ave. and Locust St.

Iowa, Des Moines—City Council passed resolution to pave portion Pleasant Ave. with asphalt. Karl C. Kastberg, City Engr.

Iowa, Grinnell—City receives bids about July 15 for paving various streets. Iowa Engineering Co., Chase Bldg., Clinton, Engr.

Iowa, Muscatine—County receiving bids July 10 for surfacing with sand clay Sections "G" and "H" of Muscatine-Nichols Rd. F. P. G. Halbfass, Engr.

Minn., Elk River—Sherburne County receiving bids July 10 for State Rd. No. 3, Job 10. F. W. Nickerson, County Engr.

Minn., Pipestone—City receiving bids July 10 for 33 blocks concrete paving. L. P. Wolff, St. Paul, Minn., Consult. Engr. Noted June 29.

Minn., St. Paul—(Official)—City receiving bids July 10 for improving portion Goodrich Ave. Oscar Claussen, City Engr.

Minn., St. Paul—(Official)—City receiving bids July 10 for improving portion Sue St. Oscar Claussen, City Engr.

Kan., Holton—City Council passed resolution to pave, curb, gutter portion, New York Ave. James D. Fowler, City Engr.

Kan., Independence—City plans paving portion Oak St., concrete. E. E. Weaver, City Engr.

Kan., Kansas City—City plans paving 14th and 18th St. with concrete. W. M. Barclay, City Engr.

Kan., Pittsburgh—(Official)—City does not plan to improve portion Smelter Ave. as stated in issue of June 1.

Neb., Beatrice—City repaves portion Court St. with sheet asphalt. A. J. Pethound, City Engr.

Neb., Lincoln—County receiving bids July 21 for paving District No. 15 with brick or concrete. H. D. Wells, Lincoln, Clk.

Neb., Nebraska City—Citizens vote July 21 on $30,000 bonds for paving. C. A. Shannon, City Engr.

Neb., Omaha—City Council passed ordinance to improve portion 33rd St. John A. Bruce, City Engr.

Neb., Omaha—City Council passed ordinance to improve portion Myrtle Ave. John A. Bruce, City Engr.

N. D., Beach—Billings County receiving bids July 15 for grading roads. M. C. McCarthy, Medora, Audr.

Mont., Billings—City receives bids about Aug. 1 for paving 25,000 sq.yd. E. M. Sneckenberger, City Engr.

Mo., Forsyth—Taney County, Hollister-Ridgesdale District, votes on $12,000 bonds for 15-mi. road. Address County Clerk, Forsyth.

Mo., Fulton—City Council passed resolution to curb and pave Jefferson St., with macadam, Nichols St. brick and West 6th St. bituminous macadam. F. E. Baker, City Engr.

Mo., Greenfield—(Official)—Dade County defeated $25,000 bonds for road work. Noted June 1 and 22.

Mo., Joplin—City plans paving portion West 4th St., concrete. About $25,728. J. J. McAfee, City Engr.

Mo., Joplin—City plans paving portion Wall St. with rock asphalt. J. J. McAfee, City Engr.

Mo., Liberty—Clay County voted $1,250,000 bonds for roads. Address County Clerk, Liberty. Noted Apr. 13 and May 25.

Mo., St. Joseph—City Council passed ordinance to pave portion Patee St. with asphaltic concrete.

Mo., St. Joseph—Buchanan County plans paving 14 mi. Garretsburg Rd. R. D. Cargill, Engr.

Mo., St. Louis—Board of Public Service receiving bids July 14 for paving Duncan and Arlington Ave. with brick. E. R. Kinsey, Pres.

Ark., Pine Bluff—City plans to pave West 15th and 16th Ave. F. R. Allen, City Engr.

Tex., Belton—Bell County votes July 19 on $6,000 bonds for roads in Dennis Mill District. Address County Clerk, Belton.

Tex., Hempstead—Wadler County, Rd. District No. 1, voted $25,000 bonds for road work. A. B. Hanney, Hempstead, County Judge. Noted June 8.

Tex., Longview—Gregg County votes July 27 on $200,000 bonds for road work. Address County Clerk, Longview.

Tex., Stephenville—City plans paving 2nd St., rock asphalt.

Tex., Sulphur Springs—Hopkins County receives bids for 40 mi. roads.

Tex., Waxahachie—Ellis County defeated $75,000 bonds for road work. Noted May 25.

Tex., West—Attorney General approved $10,000 bonds for street improvements.

Okla., Sayre—Beckham County votes July 12 on $10,000 bonds for road improvements in Merritt Township. Address County Clerk, Sayre.

Idaho, Sandpoint—City Council passed ordinance to improve Oak, Main, Church, 2nd and 3rd St. About $21,000.

Utah, Salt Lake City—(Official)—City receiving bids July 18 for paving portion 13th St. E. S. Q. Cannon, City Engr. Noted June 8.

Ariz., Phoenix—City receiving bids July 10 for 12,200 sq.yd. paving. J. B. Girard, City Engr.

Wash., Bellingham—Whatcom County soon awards contract for paving Marietta Rd. C. M. Adams, County Engr.

Wash., Concrete—City receiving bids July 11 for paving portions Mill, Division and Garden St. with concrete. G. L. Leonard, City Clk.

Ore., The Dalles—(Official)—Wasco County votes Nov. 7 on $260,000 bonds for Columbia River Highway and trunk line road from The Dalles to Jefferson County line. L. B. Fox, The Dalles, Clk. Noted June 8.

Calif., Amaheim—City receiving bids July 13 for about 372,219 sq.ft. asphalt pavement on Broadway. E. O. Stewart, City Clk.

Calif., Sacramento—Citizens plan election Aug. 26 to vote on $1,750,000 bonds for 124.7 mi. highways. F. C. Miller, City Engr.

Calif., Sunnyvale—City voted July 5 on $10,000 bonds for paving. F. P. McCray, Town Engr. Noted Apr. 20.

Calif., Tulare—City Council passed resolutions to pave portion East and West Kearn St.

Que., Quebec—City plans paving Aqueduct and Sauvageau Hills. About $5,300. W. D. Baillarge, Engr.

Que., St. Hyacinthe—City passed by-law for $25,000 for paving. H. Cadieux, Engr.

Que., Verdun—City plans to widen La Salle Ave. H. E. Tanner, City Engr.

Ont., Napanee—City voted by-law for $10,000 for paving with macadam. W. A. Grange, City Clk. Noted May 25.

Ont., Norwich—City plans 40,000 sq.ft. brick pavement. W. Fairley, Clk.

Ont., Portsmouth—City receives bids 1,000 ft. cement sidewalks. J. W. Henstridge, Clk.

Ont., Pembroke—City plans paving. Cost, $4,000. W. J. Moore, Engr.

Bids In and Contracts Awarded

N. H., Manchester—State Highway Commission received bids 2 mi. highway from R. H. Newell, Uxbridge, Mass., $20,227; Noyes & Campbell, Augusta, Maine, $21,460; Small & Ingalls, Bar Harbor, Maine, $19,908. Noted June 22.

Mass., Duxbury—State Highway Commission let contract section highway to ANTONIO CARCHIA, 16 Foster St., Boston. Noted June 8 and 22.

Mass., Hanover—State Highway Commission let contract 3 gravel roads to POWERS BROS., Brockton.

Mass., Holyoke—City let contract sidewalks on Beech St. to LYMAN & WINKLER. Noted June 8.

Mass., Marshfield—State Highway Commission let contract section highway to ANTONIO CARCHIA, 16 Foster St., Boston. Noted June 8 and 22.

Mass., Ccitutate—State Highway Commission let contract section highway to ANTONIO CARCHIA, 16 Foster St., Boston. Noted June 8 and 22.

Mass., Uxbridge—Town let contract South Main St. highway to H. C. NEWELL.

Conn., Hartford—City let contract paving portion Village and Forbes St. and Naubuc Ave. to L. SUZIO CONSTRUCTION CO., Meriden. Noted June 1.

Conn., New Britain—City let contract paving Elm St. to UNION PAVING CO., Schenectady, N. Y., $20,000.

N. Y., Albany—(Official)—State Highway Commission received lowest bids June 26 for improving and repairing highways in various counties from:

Repair Contract No. 974, Albany County, 1.06 mi. Sewage Disposal and Water Plant Co., Schenectady, $18,548; Heisler & Luke J. Devlin, Albany, $18,576; Martin Murray & Co., Troy, $21,121.

Repair Contract No. 980, Albany County, 3.91 mi. Greece Construction Co., Rochester, $18,978; John Doyle, Albany, $19,435; George H. McEvoy, Creek Locks, $20,163.

Repair Contracts No. 964, Cayuga County, 2.76 mki. W. F. Hill & Co., Fulton, $17,305; Flood & Van Wirt Co., Hudson Falls, $17,754; Richard Hopkins, Troy, $18,313.

Repair Contracts No. 982, Cayuga County, 3.29 mi. Flood & Van Wirt Co., Hudson Falls, $19,458.

Repair Contract No. 962, Cortland County, 7.11 mi. Charles E. Haney, Camillus, $29,241; McGreevey, McGuigan & Baum Construction Co., Elmira, $31,905; John R. Burchill, Syracuse, $32,764.

Repair Contract No. 963, Cortland County, 2.70 mi. Rowland E. Wright, Cortland, $12,672; McGreevey, McGuigan & Baum Construction Co., Elmira, $12,692; Charles E. Haney, Camillus, $13,071.

Repair Contract No. 984, Essex County, 10.93 mi. Kellogg Boynton, Keeseville, $3,587; Defiance Corporation, Ticonderoga, $3,883.

Repair Contract No. 970, Herkimer County, 9.91 mi. Phelan & Sullivan, Utica, $49,086; J. L. Richmond, Hinkley, $49,932; Spellman-Oliver Co., Chateaugay, $49,942.

Repair Contract No. 960, Livingston County, 0.57 mi. Schroder-Hicks Contracting Co., Rochester, $4,804; McCarthy & Wall, Mt. Morris, $4,992.

Repair Contract No. 978, Livingston County, 4.66 mi. H. A. Murphy, Albany, $10,099; P. F. Herlihy, Glenns Falls, $10,332; D. I. Snell Co., Canajoharie, $10,864.

Repair Contract No. 967, Niagara County, 3.19 mi. Charles E. Haney, Camillus, $16,159; Cold Spring Construction Co., Buffalo, $18,364; Greece Construction Co., Rochester, $18,927.

Repair Contract No. 975, Oneida County, 4.74 mi. Harry W. Roberts & Co., Utica, $35,966; Federal Asphalt Corporation, New York, $43,273; Charles O. McComb, Syracuse, $43,882.

Repair Contract No. 968, Onondaga County, 0.88 mi. Dana W. Robbins, Inc., New York, $8,350.

Repair Contract 965, Onondaga County, 3.70 mi. John R. Burchill, Syracuse, $16,753; Dale Engineering Co., Utica, $17,821; Lane Construction Corporation, Meriden, Conn., $17,981.

Repair Contract 966, Onondaga County, 3.30 mi. Charles E. Haney, Camillus, $13,102; John R. Burchill, Syracuse, $14,763; Guy B. Dickison, Syracuse, $15,186.

Repair Contract No. 961, Onondaga County, 6.24 mi. John R. Burchill, Syracuse, $9,308; Dana W. Robbins, Inc., New York, $9,445; J. H. Weidman, Syracuse, $9,805.

Repair Contract No. 979, Onondaga County, 0.60 mi. Mondo Construction Co. Inc., Syracuse, $15,952; Guy B. Dickison, Syracuse, $15,959.

Repair Contract No. 976, Onondaga County, 4.84 mi. Harry W. Roberts & Co., Utica, $38,267; Lane Construction Corporation, Meriden, Conn., $42,028; William P. McDonald Construction Co., Mt. Vernon, $45,064.

Repair Contract No. 870, Rensselaer County, 4.34 mi. John B. Dower, Ballston Spa., $33,665; C. S. Mathusa, Albany, $34,825; Thomas H. Karr, Troy, $40,285.

Repair Contract No. 981, Rensselaer County, 3.11 mi. Gifford Construction Co., Jamaica, $12,-

845; **Flood & Van Wirt Co., Hudson Falls, $13,355; Thomas H. Karr, Troy, $14,724.**

Repair Contracts, No. 977, Sullivan County, 2.65 mi. **Jackson Bros., Cuddebackville, $14,963; George H. McEvoy, Creek Locks, $15,967; Nathan E. Young, Cuddebackville, $16,593.**

Repair Contract No. 971, Westchester County, 15.13 mi. **H. A. Murphy, Albany, $23,429; Richard Hapkins, Troy, $23,647.**

Proposals were received by the State Highway Commission at its office, No. 55 Lancaster St., Albany, N. Y., on Monday, the 26th day of June, 1916, for the improvement of public highways by State Aid.

Road No. 1,302 **Morris-Oneonta: Otsego County,** 12.66 mi. **Frank D. Van Horn, New York, $116,754; J. L. Richmond, Hinkley, $147,300; Fulton Engineering Co. Inc., Albany, $143,952.**

Road No. 976 **Java Village: Wales,** 3.52 mi. **Bison City Engineering and Contracting Co., Buffalo, $30,347; F. J. Mumm Contracting Co. Inc., Buffalo, $36,078.** Noted June 15.

N. Y., Dunkirk—City let contract for improving Doughty St. to J. P. MORRISEY, 30 North 4th St.

N. Y., Malone—(Official)—Village let contract improving Main St. to A. J. McCONVILLE, Ogdensburg, $27,860. Noted June 8 and 22.

N. Y., New York—(Borough of Queens)—(Official)—Borough let contract improving portion Lefferts Ave. to CLEVELAND-TRINIDAD ASPHALT CO, Flushing Ave., Brooklyn, $21,499 Noted June 15.

N. Y., New York—(Borough of Queens)—(Official)—Borough let contract improving portion Columbia Ave. to UVALDE ASPHALT PAVING CO., Manhattan, $4,971. Noted June 15.

N. Y., New York—(Borough of Queens)—(Official)—Borough let contracts paving: CLEVELAND-TRINIDAD ASPHALT CO., Flushing Ave., Brooklyn, 6th Ave., $32,629, 2nd St., $30,235, 19th St., $35,095; BOROUGH ASPHALT CO., Jerome Ave., $37,462; E. W. FITZPATRICK, 128-3rd Ave., Astoria, Ditmars Ave., $10,885, 47th St., $8,084. Noted June 15 and 29.

N. Y., New York—(Borough of Richmond)—(Official)—Lowest bid for repaving with concrete portion Bush Ave. was Uvalde Asphalt Paving Co., at $5,360. Noted June 22.

N. Y., Rockville Center—(Official)—Village let contract concrete roads to ROSENTHAL ENGINEERING AND CONTRACTING CO., INC., 165 Hooper St., New York, (Borough of Brooklyn), $1.44 sq.yd. Noted June 8.

N. Y., Rome—City let contract paving various streets to WARREN BROS. CO., Boston, Mass. $60,909. Noted June 29.

N. Y., Troy—City let contract improving various streets to MARTIN MURRAY & CO., 2254 14th St., $19,242. Noted June 22.

N. Y., Troy—Board of Contract and Supply receiving bids paving portion Stow Ave. from John W. Davitt, $29,510, (a) granite and concrete, $26,290, (b) brick and concrete; Rassam Paving Co., (a) $30,150, (b) $26,755. Noted June 22.

N. J., Jersey City—(Official)—City received bids for paving portion Rose Ave.; H. Littier and R. Sangiovanni, $6,849. Noted May 11 and 25

N. J., Newark—City let contract paving to GLENFIELD CONSTRUCTION CO., Halstead St., $17,570, Beaumont Pl., $8,079; MAHER & NICHOLS, Cliff St., $12,975; STANDARD BITULITHIC CO., Dayton St., $13,362.

N. J., New Brunswick—Middlesex County let contracts improving Cranbury Turnpike to MANWARING & CUMMINS, Philadelphia, Section 1, $127,000, Section 2, $99,000. Noted Mar. 2.

N. J., Peapack—Borough let contract paving Holland Ave. to W. R. MOORE, Far Hills, $4,256.

N. J., Pennsgrove—City let contract paving Broad and Maple St. to JOSEPH F. BURKE CO., Plainfield, $36,018.

N. J., Trenton—City let contract paving Clinton, Chestnut and East Hanover Ave. to NEWTON PAVING CO., Broad St.; West State St., A. DeLUCIA, 55 Butler St.

Penn., Avalon—City let contract curbing and paving portions Groveton, Elizabeth and Oakwood Ave. to DALLAS & NARDULLI, 608 Larimer Ave., Pittsburgh. Noted Mar. 2 and 30.

Penn., Cresson—City let contract paving portion Keystone, Ashcroft and Powell Ave. and 2nd and 3rd St. to GREGORY PAVING CO., Lewistown, $45,000. Noted June 1.

Penn., Edgeworth—Borough let contract paving and curbing Meadow Lane to McPHERSON BROS., 421 Chestnut St.

Penn., Harrisburg—(Official)—State Highway Department let contract Section 5, State Highway Route 131, Chester County, to NEFF, HORN & CO., Slatington, $59,973. Noted June 8.

Penn., Homestead—Borough let contract paving and curbing McClure Ave. to F. DONATELLO, 121 Shetland St., Pittsburgh.

Penn., Lewisburg—City let contract 7,500 sq.yd. paving Market St. to W. H. LYONS, Sunbury, $2.12 sq.yd. Noted May 25.

Penn., New Brighton—County let contract improving road between New Brighton and McKinley Run to J. G. McGUIRE, New Brighton, $28,744.

Penn., Pittsburgh—City let contract paving and curbing portion Liberty Ave. to THOMAS CRONIN, 17th and Muriel St.

Penn., Scranton—City received low bid paving and curbing Gibson St. from Matt Stipp, about $8,500.

Penn., Sunbruy—City let contract paving Reagan St. to HENRY LYONS.

Penn., Wilkes-Barre—County let contract paving highway from Hillside to Huntsville to J. J. BOYLE, Wilkes-Barre, $54,378. Noted May 25.

Va., Richmond—City let contract sidewalks and turnpike to J. J. CURLEY, $7,125.

Va., Staunton—City let contract paving portion North Central Ave. to WILLIAM LARNER & CO., Staunton, $12,260.

W. Va., Charleston—(Official)—City let contract paving Piedmont and Crescent Rd., Ash St. and Indiana Ave. to CENTRAL ENGINEERING CO., Charleston. Contract includes sewers. About $40,000. Noted May 11 and June 8.

W. Va., Lumberport—City let contract paving to CONCRETE STEEL BRIDGE CO., Clarksburg. About $20,000. Noted Apr. 27 and May 4.

N. C., Concord—City let contract cement sidewalks to HUDSON PAVING CO.

Ala., Grove Hill—(Official)—Clarke County let contract portion proposed Jackson Highway to CENTRAL ALABAMA CONSTRUCTION CO, Thomasville, $37,640. Noted Nov. 15 and June 8

Miss., Canton—City let contract paving to S. A. GANO, Jackson, and MURRILL CONSTRUCTION CO., Vicksburg. About $40,000. Noted June 8 and 15.

Miss., Flira—City let contract for sidewalks to J. M. EVANS & CO., Jackson. Noted June 22.

Miss., Pontotoc—Pontotoc County let contract highway to E. L. HUSTON, Pontotoc. About $28,000.

La., New Orleans—State Highway Department received lowest bid for 12 mi. earth road in Grant Parish from Smith Bros., Coushatta, $12,875. Noted May 25.

Tenn., Center—City let contract paving to J. S. MOORE & SONS. About $15,000.

Tenn., Jackson—City let contract paving Royal, Highland and Main St. to POUNCEY PAVING AND CONSTRUCTION CO., 1622 York Ave., Memphis, Tenn., $2.05 per sq.yd. Noted May 11 and June 8

Ky., Flemingsburg—Fleming County let contract road improvements to PHELPS-POST-GUYN CO., Lexington. About, $10,000. Noted Mar. 2 and May 18.

Ky., Georgetown—Scott County let contracts roads to PHELPS-POST-GUYN CO., Lexington, GORMLEY BROS., Versailles, M. CHANDLER & SONS, Versailles, C. N. WOOD, Georgetown and LANCASTER & CYLE, Stamping Ground Pike. Noted Apr. 13 and June 15.

Ky., Lexington — Fayette County let contract paving to CAREY-REED CO., Lexington, $80,000. Noted Apr. 6 and 27.

Ohio, Alliance—City let contract paving and curbing Arch Ave. and alley north of Main St. to F. A. DOWNS CONSTRUCTION CO. Noted May 11 and 25.

Ohio, Alliance—City let contract paving and curbing Avalon Ave. to J. D. PAXSON, Salem. Noted May 11 and 25.

Ohio, Cedarville—(Official)—City let contract paving Main St. to ILIFF BROS., London, $8,496. Noted May 25 and June 29.

Ohio, Cincinnati—Hamilton County received bid for repairing Harrison Pike from William F. Flynn, Cincinnati, $4,038.

Ohio, Cincinnati—Hamilton County let contract improving Pippin and Benning Rd. to O. E. ROBINSON, 4649 Hamilton Ave., $16,400.

Ohio, Coshocton—City let contract improving streets to JOHN HALL, R. COCHRAN and HENDERSON BROS.

Ohio, Cuyahoga Falls—(Official)—City let contract paving and sewer in Northampton Ave to WINDSOR BROS. CONSTRUCTION CO., Akron $38,200; Broad St. paving, S. W. PARSHALL & SON, Akron, $50,500. Noted May 18 and June 8.

Ohio, Dayton—City let contracts paving to DAVID BEARD, Salem Ave., $14,834; J. KERNAN & CO., Livingston Ave. and Bickham St., $5,058. Noted May 4.

Ohio, Dayton—Montgomery County let contract paving Section L, Indianapolis Rd., to D. A. ONSKT, $18,848.

Ohio, Elmore—City let contract improving Lytle and Augusta St. to A. WITTE, Elmore, $10,000. Noted June 8.

Ohio, Galion—City let contract paving Gill and Erie St. to F. GANDERT & SON, Mansfield. Noted Mar. 30 and June 15.

Ohio, lima—City let contracts paving Ewing Ave. to JAMESON & BLOSSER, $15,482; Holly St., RICHARD STONE, $9,514. Noted Apr. 27 and June 8.

Ohio, Lisbon—(Official)—Columbiana County let contracts road improvements to RHINEHART BROS., East Liverpool, Calcutta-Fredericktown Rd., $18,304; M. P. CONNELLY & SON, Youngstown, Salem-Winona Rd., $22,161; McLANE & HEPBURN, Lisbon, Rogers-East Fairfield Rd., $5,389. Noted June 15.

Ohio, Lisbon—(Official)—Columbiana County let contracts road work to J. D. PAXSON, Salem, Salem-Canfield Rd., $22,166; JONES CONSTRUCTION CO., Mt. Vernon, Damascus Valley Rd., $33,314, Lisbon-Salem Rd., $96,543; RHINEHART BROS., East Liverpool, Park Blvd., $14,522; G. B. PATTERSON, Wellsville, Wellsville-Oak Grove-Calcutta Rd., $11,450; J. C. DEVINE, Alliance, Salem-Goshen Rd., $13,449; CAMPBELL BROS., Youngstown, Wellsville-Lisbon Rd., $76,664; HEPBURN & McLANE, Lisbon-Bayard-Canton Rd., $28,767; F. L. COX, Kensington, Kensington-Carrollton Rd., $4,718; M. P. CONNELLY & SON, Youngstown, Thomas Rd., $37,560, East Liverpool-Cannon Mill Rd., $38,135; HINTON & CUNNINGHAM, East Liverpool, East Liverpool-Cannon Mill Rd., $24,170, Park Way-Lisbon, Smiths Ferry Rd., $11,536. Noted June 15.

Ohio, Lisbon—City let contract paving portion North Market St. to MODERN CONSTRUCTION CO., Fremont, $21,950.

Ohio, Marysville—City let contract paving portion Wall Alley, Cottage and Ash St. to WELCH & JONES, Maple St, $4,866. Noted June 1 and 8

Ohio, Middletown—City let contract grading Cooch St. to BIGLER BROS.

Ohio, Niles—City let contract sidewalks Fenton St. to NILES CONCRETE CO. Noted Apr. 6.

Ohio, Port Clinton—Ottawa County let contract 9¼ mi. road to WEIS BROS. & BURMAN, Elmore, $43,573.

Ohio, Toledo—Lucas County let contract Helfrch and Brand Rd. to DOAN & LANGENDERFER, $24,897.

Ohio, Van Wert—City let contract improving West Main St. to FEDERAL ASPHALT CO. $40,000. Noted Feb. 3 and June 8.

Ohio, Warren—City let contract paving Lowell and Lawrence Ave. to SMITH ENGINEERING AND CONSTRUCTION CO.

Ohio, Youngstown—(Official)—City let contract improving Parnell St. to W. T. ROBINSON, $4,908. Noted Mar. 30.

Ohio, Zanesville—City received lowest bid paving portion Market St. from Adams Bros. Noted June 8 and 15.

Ind., Crawfordsville—City let contract paving West Main St. to CLEMENTS & CLEMENTS, $4,847.

Ind., Evansville — (Official) — Vanderburgh County let contract King Rd. to C. P. WHITE, Evansville, $11,200; Bayou Seminary Rd., S. R. ADAMS & CO., Princeton, $16,251. Noted June 15.

Ind., Indianapolis—Marion County let contract road in Franklin Township to R. E. M. CONSTRUCTION CO., Evansville, $28,998. Noted May 25.

Ind., Laporte—City let contract improving alleys to W. M. JACKSON.

Ind., Madison—City let contract paving portion Main and Walnut St. to EWING SHIELDS, Greencastle, $1.95 sq.yd. Noted Mar. 23.

Mich., Albion—County let contract roads to H. E. BROWN, Union City, $9,420.

Mich., Eaton Rapids—City let contract 2 mi. paving to A. H. PRANCE, Grand Rapids.

Mich., Fremont—City let contract paving Division and Merchant Ave. to MARSMAN & GREEN, 619 Ashton Bldg., Grand Rapids, $13,800.

Mich., Hastings—City will pave Michigan Ave. by day labor.

Mich., Monroe — Monroe County let contracts roads to HARRY VANDERVEEN, Grand Rapids, Dundee-West Rd., $82,000, Milan-Dundee Rd., $116,800; EDGINGTON & ROUTHSON, Milan, Stecker Rd., $8,144, Carleton-Scofield Rd., $61,789; PHILGARRIGAN & SON, Toledo, Ohio, Lasalle Rd., $4,929.

Ill., Chicago Heights—City let contract paving Wentworth Ave., $25,000, and Arnold St. $50,000, to CHICAGO HEIGHTS COAL CO.

Ill., Marion—Williamson County let contract road in Blairsville Township to DUNLAP-DIPPLOD CO., Edwardsville, $11,720.

Ill., Marion—Williamson County let contract for road work to D. E. NIPP, Marion, $9,961.

Ill., Maywood—City let contract widening and repaving portion Lake St. to MARQUETTE CONSTRUCTION CO., 133 West Washington St., Chicago, $10,000.

Ill., Pekin—Pekin County let contract 390,000 gal. road oil to INDIAN REFINING CO., 17 Battery Pl., New York, $4.05 per hundred gal.

Ill., Rockford—City let contract paving portion South 5th St. to GENERAL ENGINEERING AND CONSTRUCTION CO., $16,702.

Ill., Rock Island—Board of Local Improvements let contract improving portion South 5th St., GENERAL ENGINEERING AND CONSTRUCTION CO., $16,702; HART & PAGE, Chestnut and Waldo St., $11,709; Parmele St., $10,300; F. K. CARRICO, 12th Ave. and Parmele St., $10,316.

Wis., Caledonia—County let contracts Sheridan Rd. to CHARLES NELSON, Racine, $15,008; Corliss Rd., JOHN R. GRIFFITH, Caledonia, $8,288. Noted Feb. 17 and Mar 9.

Wis., Cuba City—City let contract 4 blocks concrete pavement on Main St. to R. L. CONLON, $1.55 sq yd.

Wis., De Pere—Low bids paving Michigan, Charles and 3rd St. from Winston Construction Co., Chicago, $1.41 sq.yd., asphaltic concrete; White Construction Co., Milwaukee, $1.45, reinforced concrete.

Wis., Janesville—(Official)—City let contract paving Oakland Ave. to BROWN & CONNORS, Janesville, $16,715. Noted May 25 and June 29.

Wis., Milwaukee—City let contract paving Layton Blvd., to BADGER CONSTRUCTION CO., $19,236; Kenwood Blvd., F. P. COUGHLIN, $21,-388; Hayes Ave., WHITE CONSTRUCTION CO., $10,010; Howell Ave., P. C. KROECK, $4,449; 11th St., $6,207; Manitoba St., F. BANAZAK, $9,722.

Wis., Milwaukee—County Supervisors let contracts Villard Ave. and Burnham St., sheet asphalt, to WHITE CONSTRUCTION CO., $1.73 sq.yd.; Center Rd., concrete, GUMZ, GUTKNECHT & WUSSOW, $0.80 sq.yd. H. J. KUELLING, Comr. Noted May 18.

Wis., Stevens Point—City let contract improving streets to C. PETERSON CONSTRUCTION CO., Kenosha.

Wis., Superior—City received low bid paving portion North 21st St., T. G. Laughren, $4,261.

Wis., Washburn—City let contract paving Bayfield St. and 1st Ave. to THOMAS E. WOOLEY, La Crosse, $35,000. Noted Mar. 23.

Iowa, Britt—(Official)—City let contract 36,-000 yd. paving with curbing and guttering to J. S. McLAUGHLIN & SONS, Red Oak, $1.69 per yd. Noted May 18 and June 1.

Iowa, Clinton—County let contract 2 mi. highway to GUND & GRAHAM.

Iowa, Council Bluffs—City let contract paving Georgia Ave. to E. A. WICKHAM & CO., $1.50 per yd.

Iowa, Council Bluffs—City let contract paving alley between Willow and 5th Ave. to E. A. WICKHAM.

Iowa, Des Moines—City let contract paving portion East, 1st, 6th and 9th St. and East Jefferson and Washington Ave. to DES MOINES ASPHALT PAVING CO., 11th and Vine St., $41,160. Noted Mar. 23 and May 4.

Iowa, Idagrove—City let contract paving to JOHNSON CONSTRUCTION CO., Chicago.

Iowa, Madrid—Mt. Hope Cemetery Association let contract cement sidewalks to A. SWANSON.

Minn., Albert Lea—Freeborn County let contract grading roads to HENRY ABBY.

Minn., Albert Lea—City let contract curbing and concrete walks to JENSEN CONSTRUCTION CO., Ft. Dodge.

Minn., Austin—Blue Earth County let contract 16,000 ft. curbing and guttering to LeCLAIRE & NELSON.

Minn., Duluth—City let contracts 12 mi. sidewalks to E. JOHNSON and E. SWANSON. About $30,000. Noted Mar. 9.

Minn., Virginia—(Official)—City let contract paving to LARSEN & McCANN CO., Eveleth, Minn.

Kan., Kansas City—(Official)—Wyandotte County let contract improving portion Steele Rd. and 21st St. to ENRIGHT CRUSHED ROCK CO., Kansas City, Kan. Noted June 8.

Kan., Kansas City—City let contract paving portion Paseo St. to E. J. WETHERSTROM, Kansas City, at about $9,000.

Kan., Mulberry—City let contract paving to A. JAICKS CO., Kansas City, Mo., $17,464.

Wyo., Sheridan—City rejected bids paving portion Main St. Noted June 8.

Mont., Great Falls—City let contract improving 1st Ave., N., to NILSON & SMITH, $6,903.

Mont., Helena—City let contract paving RODGERS & ALLEN, Butte, $7,350.

Mo., Booneville—City let contract curbing, guttering and paving to F. STRETZ & SONS, Booneville.

Mo., Independence—Jackson County let contract Hiler and Buckner Rd. to DAVIDSON CONSTRUCTION CO., Kansas City, $40,817.

Mo., Independence—County received low bid macadamizing Kentucky Ave. from C. Gidinsky, 3419 Kenwood Ave., $21,192. Noted May 18.

Mo., Moberly—City let contract paving portion Fisk Ave. to LYNCH-McDONALD CONSTRUCTION CO. Noted Apr. 13.

Mo., St. Joseph—Buchanan County let contract improving portion Amazonia Rd. to METROPOLITAN PAVING CO., Corby-Forsee Bldg.

Mo., St. Joseph—City let contract paving portion 10th St. to METROPOLITAN PAVING CO., Corby-Forsee Bldg., $5,515.

Ark., Jonesboro—City let contract paving to GUY W. COBB.

Tex., Bay City—Matagordo County let contract road work in Precinct No. 1 to W. D. HADEN, Galveston, $102,000. Noted Mar. 23 and June 15.

Tex., Ft. Worth—City let contract repaving Main St. to H. K. McCOLLUM CONSTRUCTION CO., Ft. Worth, $86,701. Noted Mar. 9.

Tex., Houston—City received low bids paving portion Montrose Blvd. from Talbot Co., Houston, concrete, $41,736, asphalt, $49,491; Eureka Paving Co., Houston, concrete, $41,581; Southern Paving Co., Houston, asphalt, $37,258, concrete, $36,418. Noted May 25.

Okla., Bartlesville—City let contract paving to J. W. MENEFEE, Sedalia, Mo., $1.19 per sq.yd. Noted Feb. 10 and Mar. 2.

Okla., Sand Springs—City let contract paving to BENNING ENGINEERING CO., Oklahoma. Noted June 15.

Ariz., Phœnix—City let contract paving portions North Central Ave. and West Roosevelt St. to CALIFORNIA-ARIZONA CONSTRUCTION CO., Los Angeles, $21,655. Noted Apr. 13.

Wash., Black Diamond—County let contract highway between Black Diamond and Maple Valley to HENRY BRICE, $56,143.

Wash., Chehalis—City let contract paving National Ave. to ALBERS BROS., Chehalis, $10,260. Noted Feb. 17 and Mar. 2.

Wash., Pullman—City let contracts paving South Grand St., $4,148, East Spring St., $5,895. to WASHINGTON PAVING CO., Seattle. Noted May 25.

Wash., Raymond—City let contract South Bend-Raymond Blvd. to T. H. COCHRAN & SONS, St. Johns, Ore., $20,900.

Wash., Seattle—City let contract sidewalks HELLENTHAL & CO., $9,589.

Wash., Seattle—King County let contract Kent-Des Moines Highway to CHARLES G. HUBER, Central Bldg., $29,465.

Ore., McMinnville—City let contract paving to MONTAGUE-O'REILLY CO., Portland, $28,207.

Ore., Portland—City let contract paving portion East Oak St. to MONTAGUE-O'REILLY CO., $15,902. Noted June 22.

Calif., Los Angeles—City received low bid for improving portion Road District No. 1 from Fred Hoffman, Long Beach, $20,500.

Calif., Sacramento—City let contract improving P and Q St. to McGILLIVRAY CONSTRUCTION CO.

Calif., Sacramento—City let contract improving Channing and Sylvan Way to CLARK & HENEREY CONSTRUCTION CO.

Calif., San Leandro—City let contract paving to D. U. TOFFELMEIER, First National Bank Bldg.

Calif., Vallejo—City received low bid paving Northwest Paving District from Worswick Construction Co. T. D. Kilkenney City Engr. Noted June 1 and 8.

N. B., Fairville—St. John County let contract about 20,000 ft. sidewalks to KANE & RING.

Ont., Lindsay—City let contract about 10,000 sq.yd. asphalt pavement on Kent and Glenley St., W., to STANDARD PAVING CO., Ottawa. Noted June 15.

INDUSTRIAL WORKS

Proposed Work

N. H., Salem—Massachusetts Northeastern Co., making plans for additions to car shops. Pollissior & Dibble, 317 Main St., Springfield, Arch.

Mass., Chelsea—Frost Hospital receiving bids July 10 for laundry and heating plant. Haven & Crosby, 40 Central St., Boston, Engr.

Mass., Danvers—City plans storehouse and service building. Kendall Taylor & Co., 93 Federal St., Boston, Arch.

Mass., Worcester—Packard Motor Car Co. making plans for garage, repair shops and sales room on Atchison St. About $60,000. O. C. S. Ziroli, 306 Main St., Arch. Noted Oct. 28.

Conn., East Canaan—Barnum-Richardson Co. plans factory.

N. Y., Amsterdam—Chalmers Knitting Co. making plans for 7-story factory on Bridge St. C. R. Makepeace, Providence, R. I., Arch. George C. Williams, Mgr.

N. Y., Bridgehampton—D. S. Downs making plans for garage and greenhouse. About $25,000. R. J. Sands, 7 East 42nd St., New York, Arch.

N. Y., Cobleskill—New York State School of Agriculture making plans for dairy and barn. About $12,000. Lewis F. Pilcher, Capital, Albany, Arch.

N. Y., Green Island—(Troy post office)—Poughkeepsie Concrete Stone Co. plans plant.

N. Y., New York—(Borough of Bronx)—William C. Bergen, 1952 Arthur Ave., made plans for 2-story, 88x152-ft. garage. About $25,000. Walter C. Martin, 1932 Arthur Ave., Arch.

N. Y., New York—(Borough of Bronx)—Charles W. Hoffman, 307 West 137th St., made plans for 5-story garage and storage building. About, 40,000. John H. Friend, 148 Alexander Ave., Arch.

N. Y., New York—(Borough of Brooklyn)—Waterbury Co., 32 Taffe Pl., making plans for 2-story, 50x150-ft. warehouse. About, $15,000. Warren & Clarke, 489 5th Ave., Arch.

N. Y., New York—(Borough of Manhattan)—United Engineering Societies receiving bids July 15 for 2-story, 88x115-ft. storage and office building. About $250,000. Henry G. Morse, 101 Park Ave., Arch.

N. Y., New York—(Borough of Queens)—M Joseph Harrison, Arch., 63 Park Row, Manhattan, making plans for 2-story, 50x100-ft. factory in Long Island City. About $10,000.

N. Y., Niagara Falls—Niagara Alakali Co. plans 2-story addition at Buffalo Ave. and Union St. About $750,000. A. W. Weetherbee, Arch.

N. Y., Syracuse—H. H. Franklin Manufacturing Co., making plans for 3-story, 220x240-ft. addition plant on West Marcellus St. About $250,-000. H. G. Franklin, 101 West Marcellus St., Pres. H. J. Reidpath & Sons, Builders' Exchange, Buffalo, Arch. Noted Nov. 4.

N. Y., Syracuse—Semet-Solvay Co., Milton Ave., plans factory.

N. J., Delawanna—Minwax Co., 18 East 41st St., New York, made plans for 1-story, 100x150-ft. factory. About $25,000.

N. J., Matawan—Wason Piano Co. plans to rebuild plant, about $50,000.

N. J., Paterson—Paterson Industrial Development Co. plans 4-story, 75x310-ft. factory on Gray St., about $205,000.

N. J., Pennsgrove—Salem & Pennsgrove Traction Co. plans shop. Stern & Silverman, Land Title Bldg., Philadelphia, Engr.

N. J., Red Bank—Red Bank Skirt Manufacturing Co. plans factory.

Penn., Bethlehem—Silvex Co. plans 1-story, 60x315-ft. factory. W. S. Barstow & Co., 50 Pine St., New York, Arch.

Penn., Mauch Chunk—Mauch Chunk Iron Works making plans for 2-story, 52x120-ft. plant. Noted Mar. 23.

Penn., New Castle—New Castle Paper Mill Co. plans improving plant on Neshanock Ave.

Penn., Philadelphia—Ferris Shoe Co. making plans for 5-story, 41x250-ft. addition to factory at Janney and Monmouth St. Charles E. Oelschlager, Arch. Noted June 22.

Penn., Philadelphia—Philadelphia & Reading Ry. plans 3-story reinforced-concrete warehouse in Port Richmondl Section. S. T. Wagner, Reading Terminal, Ch. Engr.

Penn., Philadelphia—Westinghouse Electric and Manufacturing Co., Pittsburgh, plans plant.

Penn., Pittsburgh—John G. Burns plans garage on Baum Triangle. About $100,000.

Penn., Washington—Hazel-Atlas Glass Co. plans plant.

Penn., York—Bell Motor Car Co. plans plant.

Md., Baltimore—Rosenbloom & Levy, 716 West German St., making plans for 5-story, 50x150-ft. warehouse at 12 North Paca St. Walter M. Gieske and F. Thomas, Gunther Bldg., Assoc. Arch.

Md., Baltimore—Baltimore Tube Co. plans addition to factory.

Md., Baltimore—Tropical Lumber and Pulp Co. plans factory.

Md., Hagerstown—David Harner, West Franklin St., plans 3-story, 43x120-ft. warehouse. About $15,000.

Md., River View—Pennsylvania R.R. plans grain elevator. About $750,000. A. C. Shand, Philadelphia, Ch. Engr.

Va., Glasgow—Glasgow Clay Products Co. plans plant. About $50,000.

Va., Richmond—A. Hoen Co. plans plant on South Randolph St.

W. Va., Lazearville—(Wellsburg post office)—Follansbee Bros. Co. plans tin plate plant. About $1,250,000.

W. Va., Ridgley—Western Maryland Ry. plans additions to car shops. About $150,000. N. R. Pratt, Baltimore, Md., Ch. Engr.

N. C., Reidsville—Reidsville Knitting Co. plans 44x105-ft. mill.

N. C., Winston-Salem—Cromer Bros. plans 2-story, 80x90-ft. warehouse.

S. C., Anderson—W. L. Brissey Lumber Co. plans warehouse. W. L. Brissey, Pres.

Ga., Augusta—Glover & McKenzie plans to enlarge plant.

Ga., Cochran—City voted $20,000 bonds for ice and cold-storage plant. J. C. Urquhart, Mayor.

Ga., Eatonton—J. O. Wall plans cotton warehouse.

Ga., Rome—Rome Oil and Fertilizer Co. plans seed house. About $10,000.

Ga., Statesboro—Bulloch Packing Co. plans packing plant.

Fla., Gainesville—Coöperative Ice Manufacturing Co. plans factory.

Fla., Miami—Homestead Mercantile Co. plans 2-story concrete warehouse.

Fla., Miami—W. D. Horne plans addition to packing plant.

Ala., McDowell—American Veneer Co., Cleveland, Ohio, plans factory at McDowell. About $10,000.

Ala., Montgomery—J. C. Turville & Sons, Martin, Tenn., plans factory at Montgomery. About $30,000.

Miss., Corinth—Nabors Cooperage Co. plans factory.

Tenn., Erwin—E. J. Owen, Sisterville, W. Va., plans pottery at Erwin, about $75,000.

Tenn., Knoxville—Superior Manufacturing Co., 740 Atlantic Ave., plans factory.

Tenn., Lebanon—Wilson County Planing Mill plans factory.

Ohio, Cleveland—General Cartage and Storage Co. plans warehouse. T. L. Johnson, 1111 Superior Ave., Secy.

Ohio, Cleveland—West Ninth Street Terminal Warehouse Co. plans warehouse 1220 West 9th St. About $2,000,000.

Ohio, Cleveland—Ohio Bronze Powder Co. made plans for 1-story factory on East 152nd St.

Ohio, Martins Ferry—James H. Beans plans addition to foundry About $25,000.

Ohio, Springfield—Standard Oil Co. plans factory.

Ohio, Toledo—Joseph Grasser plans auto and service building at Madison and 16th St. About $100,000.

Ohio, Warren—Warren City Tank and Boiler Co. plans 1-story warehouse. A. R. Hughes, North Park Ave., Pres.

Ohio, Zoar—Zoar Fire Clay Co. plans addition to plant.

Ind., Evansville—Triangle Overall Co., 18 Vine St., plans factory, about $15,000.

Ind., Richmond—See item under "Railways."

Mich., Detroit—Ford Motor Co. plans plant. About $8,000,000.

Mich., Flint—Detroit Wire Spring Co., Detroit, plans factory at Flint. L. A. Young, Detroit, Pres.

Ill., Chicago—White Laundry Co. plans laundry. About $50,000. John White, interested.

Ill., Decatur—Staley Starch Manufacturing Co. soon lets contract for 7-story factory.

Ill., Jessie—(Sidell post office)—American Hominy Co. plans grain elevator. About $20,000.

Ill., Rock Island—Moline Plow Co. plans factory.

Wis., Milwaukee—Fisk Rubber Co. plans addition to plant.

Wis., Racine—Mueller-Kuehn Co., 1332 Liberty St., making plans for 3-story warehouse, about $50,000. Henry Mueller, 1332 Liberty St., Mgr.

Wis., Sheboygan—Wald Manufacturing Co soon receives bids for 1-story, 80x100-ft. machine shop. Juul & Sixta, Imig Bldg., Arch.

Wis., Waterloo—Interstate Malt Co. plans grain elevator. D. V. Hales, 33rd Ave. and Burnham St., Milwaukee, Mgr.

Iowa, Atlantic—Atlantic Tire and Rubber Co. plans factory. I. V. Maclean, Pres.

Iowa, Davenport—Martin, Woods Co., 115 Perry St., making plans for 5-story, 72x100-ft. warehouse. About $55.000. Temple & Burrows, 63 McManus Bldg., Arch.

Iowa, Sioux City—Terminal Elevator Co., Steuben and 1st St., plans elevator.

Minn., Minneapolis—Cootey Co. plans 6-story factory at 8th Ave. and 3rd St. About $100,000.

Minn., St. Paul—Industrial Division, Association of Commerce, plans incubator, about $500,000.

Minn., St. Paul—Maxwell Motor Co., Inc., plans warehouse assembling plant.

Wyo., Buffalo—(Official)—I. E. Randall, Sheridan, receiving bids July 10 for garage, about $25,000. C. A. Randall, Sheridan, Arch. Noted June 8.

Mont., Missoula—Great Western Sugar Co. plans factory.

Mo., St. Joseph—H. J. Heinz Co., Pittsburg, plans addition to plant on Highland Ave.

Mo., St. Louis — Kilpatrick & Sons Foundry plans addition to foundry.

Ark., Flippin—Marion Zinc Co., St. Louis, plans factory at Flippin.

Ark., Montrose—Archibald Wheel Co., Lawrence, Mass., plans plant at Montrose.

Ark., Nashville—Farmers Union Warehouse Co. plans 100x142-ft. warehouse.

Tex., Houston—Southern Drug Co. soon receives bids for reinforced-concrete building at Preston and Crawford St. About $50,000. Noted May 11.

Tex., Jacksboro—Jacksboro Mill and Elevator Co. plans factory.

Tex., Paris — City Steam Laundry preparing plans for addition to laundry. Lang & Witchell & Curtis, Broad and Lightfoot St., Arch.

Tex., Texarkana — Gulf Cooperage Co. plans 100x200-ft. addition.

Okla., Henryette—Missouri, Oklahoma & Gulf Ry. plans shops. About $80,000. J. W. Dawson, Muskogee, Ch. Engr.

Colo., Trinidad—Isbell Bean Co., Detroit, plans bean elevator and cleaning plant at Trinidad.

Ore., Astoria—Astoria Machine Co. plans addition. About $25,000.

Calif., Claremont — College Heights Orange Growers Association making plans for packing plant. Paul F. Higgs, First National Bank Bldg., Pomona, Arch.

Calif., Corcoran—Norcross & Walsh plans rice mill in connection with warehouse.

Calif., Oakland — Pacific Tank and Pipe Co., San Francisco, plans factory at Oakland. About $500,000.

Ont., Brantford—Hampel Box Co. granted permit for factory on Bridge St. About $12,000.

Ont., Oshawa—McLaughlin Motor Car Co. and Chevrolet Motor Car Co plan enlarging plant.

Ont., Ottawa—Water Street Hospital making plans for laundry and dormitory. About $28,500. Charles Brodeur, 63 City Hall St., Hull, Que., Arch.

Ont., Toronto—City receiving bids July 17 for warehouse on Front St., W. About $500,000. R. C. Desrechers, Ottawa, Secy. Dept. Pub. Wks.

Ont., Toronto—Campbell Flour Mills Co, Ltd., made plans for reinforced-concrete warehouse about $20,000. J. H. Tromanhauser Co., Ltd., 604 Temple Bldg., Engr. Noted May 11.

Ont., Toronto—Harris Abattoir Co., Ltd., Union Stocks Yards, made plans for addition to plant. About $50,000. Noted June 22.

B. C., Vancouver—Alberta Pacific Grain Elevator Co. plans rebuilding elevator.

B. C., Vancouver—Wilson Bros. plans lumber mill. About $4,000,000.

Bids In and Contracts Awarded

Maine, Auburn—Cushman Hollis Co. let contract factory to JOHN A GREENLOAF & SONS CO., Auburn. About $30,000.

Mass., Boston—Bankers Realty Investment Trust let contract factory to GEORGE A FULLER CO., 131 State St., Boston. About $100,000.

Mass., Boston—(South Boston)—Boston Wharf Co., 259 Summer St, let contract 6-story, 50x 100-ft. storage building to F. C. ALEXANDER, 745 Old Soo Bldg.

Mass., Haverhill—Massachusetts & Northeastern St. Railway Co. let contract car shops to E. A. PEABODY & SON, Lawrence.

Mass., New Bedford—Contract let to TURNER CONSTRUCTION CO., 11 Broadway, New York, 8-story, 100x500-ft. warehouse.

Mass., Springfield—Duckworth Chain and Manufacturing Co. let contract 1-story addition to ERNEST F. CARLSON CO., 310 Main St., Springfield.

Mass., Worcester—David Shapiro builds 1-story garage by day labor. About $30,000. Noted June 1.

Mass., Worcester—American Steel and Wire Co. let contract addition galvanizing factory to JAMES MILES & SON CO.

Conn., Bridgeport—American Graphophone Co. let contract addition to T. J. PARKER CONSTRUCTION CO., about $60,000.

Conn., Torrington—Standard Co. let contract addition factory to FRANK W. FULLER. About $60,000.

Conn., Waterbury—Metal Specialty Manufacturing Co let contract 1-story, 100x170-ft. factory to GEORGE S. CHATFIELD CO.

N. Y., New York (Borough of Bronx)—Metropolitan Roofing Metals Co. let contract 4-story reinforced-concrete auto-storage warehouse at 134th St. and 3rd. Ave., to GEORGE HOFFMAN, 1071 Washington Ave., about $60,000.

N. Y., New York—(Borough of Queens)—Mohegan Tube Co. let contract 1-story, 100x250-ft. factory on Davis St. to WILLIAM KENNEDY CONSTRUCTION CO., 215 Montague St., Brooklyn.

N. Y., Peekskill—Standard Oil Cloth Co., 320 Broadway, New York, let contract 1- ard 3-story reinforced-concrete addition to PEEKSKILL CONSTRUCTION CO. About $50,000. Noted June 1.

N. Y., Utica—Utica Spinning Co. let contract addition to plant to KIMBERLEY CONSTRUCTION CO.

N. J., Jersey City—National Air Cell and Covering Co. let contract 4-story reinforced-concrete factory to JAMES MITCHELL, 76 Montgomery St. About $100,000. Noted May 18.

N. J., Perth Amboy—Potts & Kaufman let contract 2-story addition factory to D. I. MUDDELL, 120 Elm Ave., Rahway. About $17,000.

Penn., Erie — Erie & Western Transportation Co. let contract grain elevator to STEVENS ENGINEERING CO., Chicago, about $225,000.

Penn., Marcus Hook—Viscose Co. let contract plant to IRWIN & LEIGHTON, 126 North 12th St., Philadelphia. Noted June 8.

Penn., Philadelphia—Hulton Printing, Processing and Dyeing Co., Walnut St., let contract 4-story addition to plant to GEORGE H. THIRSK, Philadelphia. About $25,000.

Penn., Philadelphia—L. L. Brody, 113 Broad St., let contract 5-story addition to LOUIS COHN, Philadelphia, about $18,000. Noted Mar. 23.

Penn., Pittston—Alpine Knitting Mills let contract factory to ECKENRODE BROS., Wilkes-Barre. About $16,000.

Penn., Sunbury — Susquehanna Silk Mills let contract 5-story, 175x250-ft. addition to REIMARD BROS., Bloomsburg.

D. C., Washington—Contract let to BOYLE-ROBERTSON CONSTRUCTION CO., 1516 H St., N. W., for 5-story warehouse. About $24,000.

D. C., Washington—Old Dutch Market Co., Inc., 916 C St., let contract warehouse at 622 Pennsylvania Ave. to BOYLE-ROBERTSON CONSTRUCTION CO., Evans Bldg.

Va., Norfolk—Norfolk Warehouse Association let contract warehouse to R. R. RICHARDSON & CO., Norfolk, about $15,000.

Va., Roanoke—Viscose Co. let contract plant to IRWIN & LEIGHTON. Noted June 22.

Va., Suffolk—Planters Nut and Chocolate Co. let contract 5-story factory to A STALLINGS & SON. About $20,000 Noted Feb 10.

W. Va., Hinton—Chesapeake & Chesapeake Ry. let contract roundhouse to PETTIJOHN & CO., Lynchburg, Va.

N. C., Charlotte—Johnston Manufacturing Co. let contract factory to S. OATES. Noted June 8.

Ga., Augusta—Jacob Phinzy let contract warehouse to WILLIAM F. BOWE, Augusta. About $14,000.

Ga., Augusta—City let contract warehouse, garage, etc., to E. J. ERBELDING CO., Augusta. About $42,000.

Ga., Tifton—Central Grocery Co. let contract warehouse to V. C. PARKER & SON, Waycross, about $25,000. Noted Jan. 27.

Tenn., Memphis—Crescent Cotton Oil Co. let contract seed house to JOHN R. MILLER CO., Memphis, about $12,000.

Ohio, Cambridge—Standard Oil Co. let contract 1-story warehouse to E. ELFORD, 104 Commercial Bldg., Columbus. About $15,000.

Ohio Cincinnati—Ault & Wiborg Co. let contract warehouse to H. C. HAZEN CONSTRUCTION CO., 2070 Ready Rd. About $60,000. Noted May 18.

Ohio, Cincinnati—Ault & Wiborg Co. let contract factory to FERRO CONCRETE CONSTRUCTION CO.

Ohio, Cincinnati—Boyle Engineering Co., East 7th St., let contract for 2-story factory on Gilbert Ave to M. MARCUS BUILDING CO., Cincinnati. About $28,000.

Ohio, Cleveland—Willard Storage Battery Co. let contract factory at 280 East 131st St. to GAYLORD W. FEAGA CO., Williamson Bldg., about $85,000. Noted May 11.

Ohio, Youngstown—American Sintering Co. let contract plant to STONE & WEBSTER ENGINEERING CO. About $100,000.

Ind., Anderson—Sefton Manufacturing Co. let contract addition to JUNGCLAUS CONSTRUCTION CO., Indianapolis, about $18,000. Noted June 29.

Mich., Detroit—Newcomb, Endicott Co., 190 Woodward Ave., let contract 4-story warehouse to H. A. JONES, 70 Washington Blvd.

Ill., Chicago—W. L. Eaton, 2342 South La Salle St., let contract 3-story warehouse to H. ELLENBERGER & CO., 122 South Michigan Ave. about $50,000.

Ill., Chicago—W. D. Kerfoot & Co., 58 West Washington St., let contract 2-story factory at 500 West Van Buren St. to YOUNGER & CO., Chicago. About $12,000.

Ill., Galesburg—Chicago, Burlington & Quincy R.R. let contract addition to roundhouse to A. V. DRINNIN. T. E. Calvert, Chicago, Ch. Engr.

Ill., Springfield—Cudahy Packing Co. let contract addition to CHARLES H. SEWARD, 534 West Canedy St. About $13,000. Noted June 1.

Wis., Depere—Northern Paper Mills Co. let contract 6 factory buildings to FABRY CONSTRUCTION CO.

Wis., Fond du Lac—Gurney Refrigerator Co. let contract addition to F. A. LITTLE CONSTRUCTION CO., about $20,000.

Wis., Iola—Iola Creamery Association let contract factory to J. A. HATCH. About $14,000 Noted June 8.

Wis., Rhinelander—Wisconsin Veneer Co. let contract 2-story addition plant to COLE CONSTRUCTION CO., Wausau.

Wis., Superior—Continental Motor Truck Co. let contract factory on Belknap St. to E. SEDLACHECK. Noted June 29.

Iowa, Columbus Junction—Sprague & Weber let contract grain elevator to NEWELL CONSTRUCTION CO., Cedar Rapids.

Iowa, Des Moines—Grocers Wholesale Co., 9th and Cherry St., let contract 4-story warehouse to CHARLES WEITZ SONS CO., $45,708. Noted Mar. 16.

Iowa, Des Moines—Successful Farming Publishing Co. let contract publishing house at 1714 Locust St. to J. C. MARDIS CO., about $60,000. Noted Feb. 3.

Iowa, Des Moines—(Official)—C. Erickson Advertising Specialty Co. let contract 3 factory buildings on 3rd St. near Grand Ave. to BENSON & MARXES, 515 West 3rd St., Des Moines, $17,300. Noted June 1.

Iowa, Sioux City—H A Wetmore, 515 6th St, let contract garage and salesroom at 613 Douglas Ave. to COOMER & SMITH, 312 United Bank Bldg., $29,690. Noted June 8.

Minn., Minneapolis—Maytag-Manufacturing Co. let contract 4-story warehouse, 513 Washington Ave., to JAMES H. BROWN CO., 511 3rd St. Noted Mar. 2.

Neb., Lincoln—Carter Storage and Transfer Co., 301 North 8th St., let contract 2-story reinforced-concrete warehouse to OLSON CONSTRUCTION CO., Chapin Bldg., about $20,000. Noted Mar. 30.

Mont., Great Falls—Great Falls Creamery Co. let contract 3-story factory to VAN GORDER CONSTRUCTION CO., $50,000. Noted May 11.

Mo., St. Joseph—Grain Belt Mills Co. let contract 4-story reinforced-concrete alfalfa mill to LOUIS COX, St. Francis Hotel. About $60,000.

Mo., St. Louis—Mineral Refining and Chemical Co. let contract plant to FRUIN-COLNON CONTRACTING CO., St. Louis.

Mo., St. Louis—Overland Automobile Co. let contract plant to LEONARD CONSTRUCTION CO., 332 South Michigan Ave., Chicago. About $100,000. Noted Feb. 10.

Mo., St .Louis—Weisels-Gerhart Real Estate Co. let contract automobile service station to J. M. HIRSHSTEIN.

Tex., Paris—Paris Grocer Co. let contract addition warehouse to W. R. HATCHER CONSTRUCTION CO., Paris.

Wash., Seattle—Fishers Flour Mills Co. let 1st unit of plant to GRANT SMITH & CO., Henry Bldg., about $75,000. Noted June 15.

Ore., Portland—E. L. Glisan let contract 3-story garage at 20 North 11th St. to TRANCHELL & PARELIUS. About $25,000.

Calif., Vernon—(Watts post office)—California Food Products Co. let contract warehouse at 52nd and Central Ave. to LEONARDT & PECK, H W. Hellman Bldg., Los Angeles.

Que., Longueul—Armstrong-Whitworth, of Canada, Ltd., Montreal, let contract additions plant to JOHN QUINLAN CO., Montreal.

Que., Outremont—City let contract garage to WILFRID DUQUETTE. About $50,000.

Ont., Hamilton—Canadian Cartridge Co. let contract addition to factory in Sherman Ave., N., to GEORGE FRID CO., $20,000.

Ont., Orillia—George Forbes, Hespeler, let contract 80x148-ft. factory to E. WEBB & SON.

FEDERAL GOVERNMENT WORK

Proposed Work

Penn., Philadelphia—Dredging—U. S. Engineer Office, Philadelphia, receiving bids July 14, for dredging Delaware River on Mifflin and connecting ranges.

D. C., Washington—Locomotives — Maj. F. I. Boggs, Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Aug. 23 for locomotives offered for sale by Panama Canal. (See adv. June 29 issue).

Ga., Macon—Post Office—U. S. Government appropriated $75,000 for addition to post office.

La., New Orleans—Wharf, etc.—Lighthouse Inspector, New Orleans, receiving bids July 25 for wharfs, walks and foundations under privies at Southwest Pass Light Station. (See adv. June 29 issue).

Mich., Charlotte—U. S. Government making plans for post office at Charlotte, about $65,000. James A. Wetmore, Washington, D. C., Act. Superv. Arch. Noted June 15.

Wis., Milwaukee—Stone—Lighthouse Inspector, Milwaukee, receiving bids July 10 for riprap stone.

Calif., San Diego—Bridge—U. S. Engineer Office, 723 Central Bldg., Los Angeles, receiving bids July 17 for repairing Old Town Bridge.

Bids In and Sontracts Awarded

R. I., Providence—Dredging—Government rejected bids June 12 for dredging Providence Harbor. New Bids. Noted June 1.

Conn., Middletown—Post Office—Government let contract post office to W. H. FISSELL & CO., New York, $100,900. Noted May 18 and June 22.

N. Y., Madison—Building—Government let contract building at Madison Barracks to C. GAMBLE, Sacketts Harbor, $5,645.

N. Y., Tompkinsville—Riprap—Lighthouse Inspector rejected only bid for 1,000 tons riprap at Little Gull Island Light Station. Noted May 25.

N. Y., Waterloo—Post Office—Government rejected bids June 30 for post office. Noted June 1 and 29.

Penn., Pottstown—Post Office—Low bids for post office (a) limestone, (b) sandstone were: Richardson & Burgess, Washington, D. C., (a) $69,888; James Duvall, Canton, Ohio, (a) $69,990 (b) $71,224; J. L. Robinson Construction Co., Baltimore, (a) $71,510. Noted June 1.

Md., Baltimore—Dredging—Government let contract dredging Patapsco River to MARYLAND DREDGING AND CONTRACTING CO., Baltimore, $26,250. Noted May 18 and June 29.

D. C., Washington—Crane—Low bid for crane Niles Bement Pond Co., New York, N. Y., $8,735 delivered at Puget Sound, Wash., and $7,655 at Philadelphia.

D. C., Washington—Dredging—Government let contract dredging Navy Yard to DORSEY & MILLER CO., Corcoran Bldg., 18c. cu.yd. Noted June 8 and 29.

D. C., Washington—Water Meters—Low bid for water meters Badger Meter Manufacturing Co., Milwaukee, $6,35 each. Noted June 8.

Va., Norfolk—Buildings—Government let contract buildings at Navy Yard to NEWPORT CONTRACTING AND ENGINEERING CO., Newport News, $15,334. Noted June 8 and 29.

Va., South Boston—Post Office—Government let contract post office to NEWPORT CONTRACTING AND ENGINEERING CO., Newport News, $42,438. Noted May 25 and June 22.

Ga., Ft. Screven—Building — Government let contract buildings to UNITED ENGINEERING AND CONTRACTING CO., Astoria, Ore., $12,590.

La., Minden—Post Office—Government let contract post office to ALGERNON BLAIR, Montgomery, Ala., $45,570. Noted May 25 and June 29.

Miss., Picksburg—Levee Work—Government let contract levee work to W. J. MASSEY & M. WOLCHAUSKY, $60,750. Noted June 8.

Ohio, Alliance—Post Office—Government let contract post office to ROBERT MELLOR, Alliance, $94,500. Noted June 1 and 29.

Ind., Michigan City—Dredging — Government let contract dredging Michigan City Harbor to GREAT LAKES DREDGE AND ROCK CO., Chicago, $4,675. Noted May 18 and June 29.

Ind., Washington—Post Office—Government let contract post office to H. G. MITCHELL, Scottsburg, $49,995. Noted May 25 and June 29.

Iowa, Grinnell—Post Office—Low Bids for post office (a) limestone, (b) sandstone, were: Charles Weitz, Des Moines, (a) $60,500; C. W. Gindele Co., Chicago, (a) $62,250; Thomas W. Cissell, Wooster, Ohio, (a) $64,002, (b) $67,000. Noted June 1.

Neb., Alliance—Post Office—Government let contract post office to GEORGE A. SHAUL, Seneca, Kan., $56,996. Noted June 1 and 29.

S. D., Redfield—Post Office—Low bids for post office were: G. W. Stiles Construction Co., Rookery Bldg., Chicago, (a) $59,355; Charles Weitz, Des Moines, (a) $58,780; W. D. Lovell, Minneapolis, (a) $59,600. Noted May 25.

Tex., Ft. Bliss—Pumping Plant—Government let contract pumping plant to W. B. PERRY ELECTRIC CO., 286 Livingston St., New York. Noted May 11.

Tex., Ft. Sam Houston—Building—Government let contract buildings to E. D. HARRIGAN, $47,682. Noted June 1.

Okla., Kiowa—Building—Contract for employees' quarters at Kiowa Agency awarded to BOWMAN & JESSE, Lawton, $6,424. Noted June 29 under Washington D. C.

Idaho, Boise—Post Office—Government rejected bids for post office. Noted May 11 and June 8.

Ariz., Douglas—Post Office—Government let contract post office to G. FEE, San Francisco, $77,000. Noted May 25 and June 29.

Utah, Ft. Douglas—Building—Government let contract buildings to J. T. & H. E. SCHRAVEN, Salt Lake City.

Wash., North Head—Building—Government let contract building at Naval Radio Station to ILWACO MILL AND LUMBER CO., Ilwaco. Noted May 25 and June 1.

Wash., Seattle—Guide Wall — Government let contract guide wall to LESTER & MONOHAN, Seattle, $17,285.

Ore., Hermiston—Canal Work—Bids for canal work on Umatilla Project from Newport Land and Construction Co., Hermiston, $32,254; G. P. Wright, 602 Providence Bldg., Tacoma, $38,512; H. D. Willis, 1419 Harrison Bldg., Boise, $42,810. Noted May 25.

Calif., San Francisco—Buildings—Government let contract buildings at Naval Radio Station to R. S. K. McMILLEN, San Francisco, $8,900. Noted June 22.

Calif., Vallejo—Bucket Dredge—Government rejected bids June 3 for bucket dredge, Mare Island. Noted May 4 and June 15.

Quam—Boilers, etc.—Bids for boilers and stack at Naval Station, (a) price per boiler delivered f.a.s. Norfolk, Va., (b) f.o.b., factory, (c) stack delivered f.a.s. Norfolk, (d) f.o.b. factory were: Babcock & Wilcox Bldg., North American Bldg., Philadelphia, (a) $18,358, (b) $17,335, (c) $5,604, (d) $6,067; E. Keeler Co. 238 West St., Williamsport, Penn., (a) $13,453, (b) $13,035; (c) $5,833, (d) $5,589. Noted June 13.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., Albany—Barge Canal Work—W. W. Wotherspoon, State Supt. of Pub. Wks., Albany, receiving bids July 18 for repairing and extending Pier 6, East River, New York, Terminal Contract No. 52.

S. C., Charleston—(Official)—Ditches and Levees—Combahee Corporation receiving bids July 26 for 6 mi. open ditch and $6\frac{8}{10}$ mi. levee. C. J. Bendt, Secy. and Treas. (See adv. June 29 issue.)

S. C., Charleston—(Official)—Pumping Plant—Combahee Corporation receiving bids July 26 for pumping plant equipment and constructing same for land drainage. C. J. Bendt, Secy. and Treas. (See adv. June 29 issue.)

Fla., Baldwin—Drainage—Surveys made for reclamation of Baldwin Drainage District No. 1 Isham, Randolph & Co., Jacksonville, Engr.

Fla., Hastings—Drainage—Plans made for drainage district, 5,210 acres, near Hastings Ellis, Curtis & Kooker, Jacksonville, Engr.

Fla., New Smyrna—Drainage—Surveys made for draining 48,000 acres for Lake Ashby Drainage District. Isham, Randolph & Co., Jacksonville, Engr. Noted Dec. 23.

Fla., Orlando—Drainage—Plans made for drainage of Upper St. Johns District, 265,000 acres. About $2,500,000. Isham, Randolph & Co., Jacksonville, Engr.

Miss., Greenville—Dredging—County Board of Drainage Commissioners receiving bids July 10 for dredging 2,700 cu.yd.

La., Burtville — (Official) — Drainage—Bayou Paul Drainage District receiving bids July 30 drainage system, 7 or 8 mi. L. Z. Huey, Baton Rouge, Engr. About $10,000. Noted June 15.

La., New Orleans—Pipe—Sewerage and Water Board receiving bids July 18 riveted steel pipes for drainage system, Contract 78-D. About $9,000. G. G. Earl, Supt. Noted June 15.

Ky., Paducah—Reclamation—Drainage Committee lets contract in fall for draining Mayfield Creek to reclaim 40,000 acres, about $200,000 John Edward Johnson, Engr. Noted June 29.

Ind., Greenfield—Drainage—County receiving bids July 15 for Benjamin F. Jones et al Drain. Earl Q. Jackson, Comr.

Wis., Necedah—Dredging—Little Yellow Drainage District receiving bids July 11 new ditches and deepening and widening old ditches. A. C Willard, Secy.

Iowa, Muscatine—Levee—Drury Drainage District voted $65,000 bonds for rebuilding protecting levee. Noted June 8.

Iowa, Nevada—Drainage—Highway Drainage District No. 74 made surveys for draining highways in Northern Sherman and South Lincoln Townships, about $55,000.

Iowa, Northwood—Drainage—Worth County receiving bids July 20 drainage work in District 23. C. N. Urdahl, Northwood, Audr.

Iowa, Waterloo—Drainage—County Supervisors plan tile drainage for No. 1800 Drainage Project J. W. Brandt, Engr.-in-Charge.

Minn., Detroit—Ditch—County Commissioners plan County Ditch No. 17.

Mont., Kalispell—Irrigation—J. A. Green, Northern Idaho and Montana Power Co., interested in irrigation of land around city.

Mo., Clinton—Drainage—Pioneer Drainage District, Henry County, receiving bids July 11 for main ditch, 9 mi., and 4 laterals, 2 mi. Brooks & Jacoby, Shukert Bldg, Kansas City, Engr. Noted June 22.

Tex., Galveston—Bulkhead—Thomas E. Ellis, Wharton, interested in bulkhead across Turtle Bay to conserve water for irrigating purposes.

Utah, Richfield—(Official) — Drainage — Sevier County Drainage District No. 1 receiving bids July 28 for tile drainage system. Brown & Kleinschmidt, 306 Dooley Blk, Salt Lake City, Engr. L. A. Wilson, Secy. (See adv. June 29 issue)

Calif., Lafayette—Irrigation—Irrigation district being formed to build reservoirs and canals. About $300,000.

Calif., Riverside—Drainage—County Supervisors, Riverside, receiving bids July 10 for reclaiming 8,000 acres in Perris Valley Section. A. B. Pilch, Clk. Noted May 25.

Calif., Riverside—(Official)—Drainage—Riverside County receiving bids July 10 ditches and levees Drainage District No. 2. About $92,525. R. O. Brown, 630 California Bldg., Los Angeles, Supt. of Constr. Nooted June 15.

Calif., Sacramento — Irrigation — Carmichael Colony Irrigation District will vote on $90,000 bonds for pumping plant and canals.

Calif., Stratford—Irrigation—Stratford Irrigation District being formed to irrigate 10,000 acres on east side of Kings River. Harry McCune, Dir.

Bids In and Contracts Awarded

Mass., Plymouth—Dredging—Harbor and Land Commission received bids June 28 for dredging in Plymouth Harbor, 50,000 cu.yd. from Boston Dredging Co., 40 Central St., Boston, $0.249 per yd., Bay State Dredging Co., 254 Atlantic Ave., Boston, $0.254, J. S. Packard Dredging Co., Providence, $0.25¾.

Del., Edgemoor—Dredging—Contract let to AMERICAN DREDGING CO., 308 Chestnut St., Philadelphia, Penn., 18¾c. cu.yd. for dredging harbor, 12,500 cu.yd.

Iowa, Clarion — (Official)—Drainage — Wright and Hamilton Counties let contract drainage work in Joint Districts Nos. 133 and 138 to INTERNATIONAL SEWER PIPE AND TILE CO., Webster City. Noted June 8.

Iowa, Eldorado—Ditches—Hardin County let contract ditches to IOWA PIPE AND TILE CO., Des Moines, and JOHN BLUNT, Ft. Dodge. About $14,000. Noted June 1.

Iowa, Webster City—Drainage—Contract let to HAWKEYE CONSTRUCTION CO. for Drain No. 188, $40,862.

Minn., Morris—Ditch—Contract Ditch No. 24 let to CARL CHRISTENSEN, Litchfield, $5,160.

Minn., Owatonna — Ditch — Contract Judicial Ditch No. 4, 84,464 cu.yd. excavation, let to V. E. McDONALD, Owatonna, $0.13 cu.yd.

Mo., St. Louis—(Official)—Dredging—City will dredge River des Peres by day labor. About $15,000. Noted June 22.

Utah, Provo—Canal—Contract let to REYNOLDS-ELY CONSTRUCTION CO., Springville, $130,515, 25 mi. canal extensions and laterals in Goshen Valley.

Wash., Wenatchee—Staves—Wenatchee Reclamation District let contract 400,000 ft. staves to PACIFIC CREOSOTING CO., Seattle, $5,100 per M.

Ore., Hermiston—Canal—Contract let to NEWPORT LAND AND CONSTRUCTION CO., Hermiston, $32,254, enlarging feed canal.

MISCELLANEOUS

Proposed Work

N. Y., Cohoes—Dock—John E. Matton, Waterford, plans dry dock and sheds, about $60,000.

N. Y., New York—(Borough of Bronx)—Retaining Wall, etc.—C. B J Snyder, Supt. of School Bldgs., Park Ave. and 59th St., Manhattan, receiving bids July 10 for excavating, retaining wall, pavements, etc., at Public School No. 32, Bronx.

N. Y., New York—(Borough of Bronx)—Subway—Public Service Commission, 120 Broadway, Manhattan, receiving bids July 17 for railroad duct line for Seventh Avenue-Lexington Avenue Rapid Transit R.R.

N. Y., New York—(Borough of Manhattan)—(Official)—Station Finish—Public Service Commission for First District receiving bids July 14 for station finish for Grand Central Station of Queensboro Subway.

Penn., Beaver Falls—Swimming Pool—City making plans for municipal swimming pool. About $10,000. Charles Ruhe, Clk.

Ga., Chino — Retaining Walls — Chino Creek Protection District plans concrete retaining walls along creek, about $18,000.

Fla., Jacksonville—Dock and River Improvements—Armour Fertilizer Co., Wilson Toomer Fertilizer Co. and Atlantic Coast Line Co. plan improving frontage of St. John's River by deepening channel and filling back of bulkhead for dockage purposes, about $100,000.

Fla., Tampa—Market—City plans public market at 7th and 21st St. About $60,000. D. B. McKay, Chn. Comrs. Pub. Wks.

Fla., Tampa—Park Building—Board of Public Works made plans for park building. A. L. Shaw, American National Bank Bldg., Arch.

Miss., Greenville—Dock—City plans docks. A. K. Parker, City Engr.

La., Lake Charles—Wharf—City lets contract in August municipal wharf. Cost, $15,000. E. L. Gorham, City Engr. Noted June 8.

Ohio, Alliance—Park and Playgrounds — City votes Aug. 8 on $100,000 bonds for parks and playgrounds.

Ohio, Cleveland—(East Cleveland)—Park—City plans park and playgrounds on Shaw Ave.

Ohio, Granville—Swimming Pool—J. S. Jones, Pres. Jones Sunday Creek Coal Co., Columbus, plans 1-story swimming pool and conservatory. About $7,000. A. D. Taylor, 1900 Euclid Ave., Cleveland, Arch.

Ohio, Middletown—Parks—City votes in August on $35,000 bonds for parks. W. C. Morrison, City Engr.

Ohio, Piqua—Natatorium—City made plans for natatorium, fountain and park. W. E. Russ, Indianapolis, Ind., Arch. H. Hartley, Park Comr.

Ohio, Troy—Tunnel—Cincinnati, Hamilton & Dayton R.R. plans tunnel under tracks on East Canal St. F. L. Stuart, Baltimore, Md., Ch. Engr.

Ind., Ligonier — Mausoleum — Strauss Bros. made plans for mausoleum. About $15,000. A. M. Strauss, Bank Bldg., Ft. Wayne, Arch.

Wis., Racine—Bathhouse — City making plans for 1-story, 40x100-ft. bathhouse. About $10,000. A. Fisk, Supt. Park Bd.

Minn., Pipestone—Memorial Tablet—County receiving bids July 19 for memorial tablet of D. E. Sweet. T. A. Bailey, Pipestone, County Audr.

Mo., Kansas City—Levees—City plans levees along Missouri River. About $500,000. Curtis Hill, City Engr.

Tex., Galveston—(Official)—Bulkhead—Galveston County receiving bids July 17 for reinforced-concrete pile bulkhead along boulevard. John M. Murch, County Audr. Noted June 15.

Tex., Galveston—Pier and Pavilion—City granted franchise for amusement pier and pavilion. About $25,000. J. E. Pearce, care of Murdock Bathhouse Co., interested. Noted June 22.

Tex., Orange—Shipbuilding Ways—F. Swails plans shipbuilding ways on Sabine River.

Utah, Salt Lake City—Tunnel—Salt Lake Power and Water Co. plans tunnel, 15,000 ft., about $800,000. Address F. H. Vahrenkamp, Gen. Mgr., Boston Development Co.

Wash., Seattle—Comfort Station—Board of Public Works soon lets contract for comfort station at 4th Ave. and Madison St. About $27,000. Noted June 29.

Wash., Seattle—Dock—Frank Waterhouse Co., Central Bldg., plans dock. About $300,000

Calif., Longbeach—Pier—City votes on $500,000 bonds for horse-shoe pier to span Pine and Morgan Ave. A. de Ring, City Engr.

Calif., Richmond—Bathhouse—City plans bathhouse.

Que., Quebec—Grandstand—Civic Roads Committee approved plans submitted by George Morisett, Secy. Quebec Provincial Exhibition Grounds, for grandstand. About $7,000.

Bids In and Contracts Awarded

Mass., Dartmouth—Breakwater—Harbor and Land Commission received bids June 28 for 8,500 tons stone for breakwater at Salters Point from John R. Burke, 78 Devonshire St., Boston, $1.78 per ton. E. S. Belden & Son, Hartford, Conn., $2.13, Rockport Granite Co., Rockport, $2.90.

Mass., Hull—Breakwater—Harbor and Land Commission received bids June 28 for 20,000 tons stone for breakwater at Gun Rock Point from Rockport Granite Co., Rockport, $1.55 per ton, Dennis F Crowley, East Milton, $1.63, Cape Ann Granite Corporation, Beverly, $1.65. Noted June 15 under Boston.

Mass., Sandwich—Jetties—Harbor and Land Commission received bids June 28 for 2,000 tons stone for extending jetties from Rockport Granite Co., Rockport, $2.40 per ton, Bay State Dredging Co., 247 Atlantic Ave., Boston, $2.49; Dennis F. Crowley, East Milton, $2.85.

N. Y., New York—(Borough of Bronx)—(Officia)—Elevated Work—Low bid for 180th St. yard of Route 1, part White Plains Road Rapid Transit R.R., T. Buckley Construction Co., 303 5th Ave., Manhattan, $289,000. Noted June 15.

N. Y., New York—(Borough of Manhattan)—(Official)—Structural Steel—Public Service Commission for First District rejected bids received June 5 for 52,000 tons structural steel for use in construction of rapid-transit railroads. Noted May 25.

Penn., Philadelphia—(Official)—Elimination of Grade Crossings—Pennsylvania R.R. let contract eliminating grade crossings under Contract 4 to THOMAS F. REILLY, Bala. Noted June 8.

Md., Baltimore—Bulkhead—Pennsylvania R R. let contract bulkhead foot of Bond St to CONSOLIDATED ENGINEERING CO., Calvert Bldg.

Md., Locust Point—(Baltimore post office)—(Official)—Pier—Baltimore & Ohio Railroad Co. let contract Pier 6 to H. S. KERBAUGH, INC., Munsey Bldg., Baltimore. Noted June 22.

D. C., Washington—Swimming Pool—Trinity College let contract addition to swimming pool at Michigan Ave. and Harewood Rd. to SAMUEL H. EDMONSTON CO., 611 G St.

Miss., Meridian—Subway—Contract let for 26th St. Subway to M. M. ELKIN & CO., Macon, Ga. Noted Dec. 2.

Ohio, Crooksville—(Official)—Skating Rink—Contract skating rink let to MILTON HENRY, Crooksville. Noted June 22.

Ind., Vincennes—(Official)—Trestle—Cleveland, Cincinnati, Chicago & St. Louis R.R. will rebuild trestle by own forces. C. A. Paquette, Cincinnati, Ohio, Ch. Engr. Noted June 22.

Ill., Chicago—(Official)—Dock Wall and Breakwater—Harbor and Subway Commission let contract dock wall and breakwater to GREAT LAKES DREDGE AND DOCK CO., Chicago. Noted June 8.

Wis., Burlington—Mausoleum—Contract mausoleum let to R. H. FITCH.

Wis., Milwaukee—Breakwater—Park Commissioners let contract breakwater South Shore Park to GREILING BROS., Green Bay, $178,000.

N. D., Grand Forks—Swimming Pool—Contract swimming pool let to B. & O. CONCRETE CO.

Mo., Kansas City—(Official)—Speedway—Kansas City Speedway Association let contract speedway to CAMERON-JOYCE & CO., Midland Bldg. About $50,000. Noted Nov. 25.

Ariz., Ray—(Official)—Flood Protection — Ray Consolidated Copper Co. let contract bulkhead and retaining wall to MASMER & RICE, Los Angeles, $43,900. Noted May 18.

Wash., Seattle—Fill County Commissioners let contract hydraulic fill between Portage and Ellisport to P. MANSON, 2407 Boylston Ave., N., $30,975.

Wash., Seattle—Shed—Port Commissioners let contract extension Salmon Bay Transit Shed to PUGET SOUND BRIDGE AND DREDGING CO., Central Bldg., $11,345.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

N. H., Newport—City plans high school, about $85,000, gift of L. D. Towle, 15 State St., Boston. F. O. Chellis, Chn. Bldg. Com.

N. H., Peterboro—Town voted $60,000 bonds for town hall.

Vt., Proctor—City making plans for high school About $50,000. R. Clipston Sturgis, 120 Boylston St., Boston, Arch.

Mass., Holyoke—State Commissioner of Health receives bids for hospital. About $60,000. T. J. McCarthy, City Engr. Noted May 25.

Mass., New Bedford—George B. Post & Sons, Arch., making plans for hotel.

Conn., Norwalk—City making plans for hospital. Boring & Tilton, 32 Broadway, New York, Arch.

N. Y., New York—(Borough of Manhattan)—Department Public Charities, Municipal Bldg., Manhattan, receiving bids July 13 for repairs and replacements to buildings in Metropolitan Hospital district, Blackwells Island.

N. J., Asbury Park—Henry and Walter Rosenberg making plans for theater at St. James Pl and Cookman Ave. About $150,000. Thomas W. Lamb, 644 8th Ave., New York, Arch.

N. J., Camden—Parkside Methodist Episcopal Church making plans for 1-story edifice. About $50,000. George E. Savage, Witherspoon Bldg., Philadelphia, Arch.

N. J., Newton—Board of Education made plans for high school. About $65,000. Rasmussen & Wayland, 1133 Broadway, New York, Arch. Noted June 8.

N. J., Pensgrove—Peoples Bank preparing plans for bank building. Moffet & Stewart, Arch.

N. J., Trenton—St. Pauls Methodist Church plans edifice at West State St. and Fisher Pl. About $50,000.

Penn., Hazleton—St. John's Primitive Methodist Episcopal Church soon lets contract for Sunday school and parish house. George E. Savage, Witherspoon Bldg., Philadelphia, Arch.

Penn., Scranton—Scottish Rite Masons plan cathedral. About $200,000.

Penn., Sewickley—School Board plans school. About $150,000. H. D. Gilchrist, Frick Bldg., Pittsburgh, Arch.

Penn., Titusville—Chautaqua Board of Education plans $50,000 bond issue for addition to high school at Assembly grounds. R. S. Park, Secy Bd.

Penn., Wilkes-Barre—Jonas Long's Sons making plans for 4-story reinforced-concrete department store. Sturdevant & Poggi, Arch.

Md., Baltimore—E. H. Kolster, 48 West Lexington St., made plans for 2 buildings on West Lexington Ave. About $40,000. John Freund, Arch.

W. Va., Clarksburg—Mason Hospital Co. soon receives bids for hospital. About $50,000. E. F. Stevens, Park St., Boston, Mass., Arch. Noted May 11.

W. Va., Huntington—Fifth Avenue Baptist Church making plans for edifice at 5th Ave. and 12th St. About $100,000. W. A. Hunt, Chattanooga, Tenn., Arch.

W. Va., Morgantown—West Virginia University soon receives bids for college buildings. About $200,000. Paul A. Davis, 1713 Sansom St., Philadelphia, Arch. Noted Dec. 30.

S. C., Rock Hill—B. P. O. E. Lodge No 1318 plans club and hotel building. About $50,000. W. G. Stevens, Chn.

Ga., Augusta—St. Paul's Congregation made plans for church and parish house. H. T. E. Wendell, Arch.

Ga., Macon—(Official)—City voted $100,000 bonds for auditorium and $100,000 for hospital. D. S. Jones, City Clk. Noted May 11.

Fla., Cocoa—Board of Public Instruction, Brevard County, receiving bids July 17 for high and grade school. About $40,000. Mark & Sheftall, Jacksonville, Arch. Noted June 22.

Fla., Key West—Board of Public Instruction plans high school, about $100,000.

Ala., Florence—School Board soon lets contract for school. About $45,000. Knight & Quale, Chattanooga, Tenn., Arch. Noted June 15.

Ohio, Akron—Central Union Telephone Co. receives bids for 3-story, 100x115-ft. building on High St., about $60,000.

Ohio, Bowling Green—Board of Trustees, Bowling Green State Normal College, receiving bids July 21 for training school and connecting corridor to administration building. Howard & Merriam, 8 East Broad St., Columbus, Arch. Noted Mar. 23.

Ohio, Bryan—Board of Education soon receives bids for grade and high school. About $120,000. W. H. Nichols, Euclid Bldg., Cleveland, Arch. Noted Apr. 27.

Ohio, Circleville—Board of Education receiving bids July 12 for 2-story high school. About $130,000. Frank L. Packard, 1212 Hayden Bldg., Columbus, Arch. Noted June 1.

Ohio, Dayton—Germania Building Association plans 6-story bank, store and office building. Peters, Hermann & Brown, 1126 Reibold Bldg., Arch.

Ohio, Eaton—Preble County receives bids about Aug. 1 for courthouse and jail. About $250,000. G. W. Rehfuss, Clk. Preble County Comrs. Noted Apr. 27.

Ohio, Franklin—City voted $125,000 bonds for school. Noted June 1.

Ohio, Newark—Pennsylvania R R. plans freight station on 5th Ave. About $146,000. A. Shand, Philadelphia, Ch. Engr.

Ohio, New Straitsville—Board of Education receiving bids July 20 for school. Matheny, Allen & Mounts, 310 Huntington Bank Bldg , Columbus, Arch. Noted June 22.

Ohio, Springfield—Odd Fellows of Ohio plan hospital and nursery in connection with home. About $50,000.

Ohio, Tiffin—Ursuline Sisters plan building, About $60,000.

Ohio, Youngstown—Ernest Salow plans 10-story hotel. About $250,000.

Ind., Ft. Wayne—Knights of Columbus plan lodge building. About $60,000. C. Weatherhogg, Hamilton National Bank, Arch.

Ind., Greensburg—Trustees of Jackson Township plan central high school. A. Kelly, Chn.

Ind., Muncie—Cyrus Heath, Noblesville, plans building at Muncie. About $50,000

Mich., Flint—City voted $500,000 bonds for high school.

Mich., Grand Rapids—Y. W. C. A made plans for building. About $250,000. Robinson & Campau, Arch. Noted Dec. 2.

Mich., Royal Oak—(Official)—Royal Oak Methodist Episcopal Congregation receiving bids July 15 for church and Sunday school, about $60,000. W. E. Hunter, Chamber of Commerce Bldg., Detroit, Arch. Noted June 15.

Mich., South Haven—City votes July 17 on $50,000 bonds for city hall and armory. Noted June 1.

Ill., Joliet—Contract soon let for Silver Cross Hospital. C. W. Webster, Arch.

Wis., Fond du Lac—Knights of Columbus making plans for club house, 80 Sheboygan St. About $65,000. J. E. Hennen 74 South Main St , Arch.

Wis., Rhinelander—Y. M. C. A. making plans for building. H. F. Liebert, Arch.

Wis., Union Grove—(Official)—Board of Control of Wisconsin receiving bids July 20 for 10 buildings at Home of Feeble Minded. J. O. Davidson, Pres. of Bd. Noted Jan. 20. (See adv. June 29 issue.)

Iowa, Carroll—City making plans for high school. About $100,000. Charles A. Dieman & Co., Granby Bldg., Cedar Rapids, Arch.

Iowa, Floyd—City votes July 12 on $45,000 bonds for school. H B Burr, Commercial Bldg., Waterloo, Arch. Noted June 15.

Iowa, Irving—(Official)—City receives bids about July 15 for 2-story, 68x110-ft. school. About $50,000. Noted June 15.

Iowa, Osage—Board of Education receiving bids July 17 for grade school. About $65,000 A E. Knoulton, Secy. Independent School District. Noted June 15.

Minn., Adams—Board of Education receiving bids July 10 for high and grade school. A Torgenson, Secy. Bd S. W. Kenny, Fitzsimmons Bldg., Minneapolis, Arch.

Minn., Argyle—School Board receiving bids July 11 for 2-story school. Bert D. Keck, Crookston, Arch.

Kan., Harper—(Official)—City receives bids about July 30 for high school. About $40,000. S. S. Voigt, Barnes Bldg., Wichita, Arch. Noted June 22.

Kan., Independence—Commercial National Bank making plans for 6-story bank and office building. Noted Jan. 13.

Kan., Kiowa—Board of Education receiving bids July 17 for 2-story school, about $40,000. S. S. Voigt, Barnes Bldg., Wichita, Arch. Noted June 29.

Kan., Ness City—Ness County plans courthouse. About $50,000.

Kan., Spearville—Mann & Gerow, Arch., Hutchinson, making plans for 1-story auditorium and gymnasium.

Neb., Columbus—Board of Education plans high school.

Neb., Fremont—Dodge County voted $100,000 bonds for courthouse. J. O'Connor, Clk. Noted May 25.

Neb., Lincoln—University of Nebraska receiving bids July 22 for building. J. S. Dales, Secy. Bd. of Regents. Noted Apr. 27.

S. D., Madison—Board of Education receiving bids July 14 for high school. H. H. Holdridge, Clk. of Bd.

S. D., Webster—Board of Education of Webster Independent School District receiving bids July 25 for 2-story school. About $65,000. Oscar Grue, Clk. of Bd. Noted June 15.

N. D., Cole Harbor—(Underwood post office)—School District receiving bids July 10 for school. Gilbert R. Horton, Citizens National Bank Bldg., Jamestown, Arch.

N. D., Minot—(Official)—City receiving bids July 24 for high school. About $125,000. W. E. Hulse & Co., Hutchinson, Arch. Noted June 22.

Wyo., Thermopolis—Garbutt, Weidner & Holdrege, Arch., receiving bids July 10 for Carter Sanatorium. About $50,000.

Mont., Bridger—City votes on bonds for school.

Mont., Butte—(Official)—First Church of Christ receiving bids July 15 for church. About $50,000. J. M. Warren, 216 Daly Bldg., Arch. Noted June 8.

Mont., Glendive—John E. Murphy made plans for Hotel Jordan. B. Rivenes, Milligan Bldg , Niles City, Arch.

Mo., St. Louis—Y. M. C. A. plans building. About $200,000. Louis Boeger, Pres.

Ark., Jonesboro—City making plans for high school. L. M. Withers, Memphis, Arch.

Tex., Ft. Worth—Temple Beth El Congregation plans synagogue. About $40,000.

Tex., Ft. Worth—City votes July 22 on $220,000 bonds for schools. Noted Dec. 16.

Tex., Paris—(Official)—J. L. Wees, Arch., Commercial Bldg., St Louis, Mo , receiving bids about Aug. 1 for bank and office building. About $100,000. Noted June 15.

Tex., Paris—Southwestern Telephone and Telegraph Co. plans building.

Tex., Sherman—City votes July 15 on $100,000 bonds for school. Noted June 29.

Tex., Sweet Water—City receiving bids July 24 for courthouse. About $100,000 C. H. Page & Bros , Austin, Arch. Noted May 25.

Okla., Francis—A. F. & A. M. plans business and lodge building

Okla., Medford—City voted bonds for city hall.

Okla., Tulsa—George Winkler, Arch., Palace Bldg., receives bids for 5-story, 50x140-ft. addition to Palace Bldg , 4th and Main St. About $80,000. Noted May 25.

Okla., Wewoka—Seminole County votes on $100,000 bonds for courthouse.

Colo., Denver—D. C. Webber made plans for theater at Broadway and Bayaud St.

Calif., Chico—City voted $60,000 bonds for school. Noted June 1.

Calif., Longbeach—City votes on $50,000 bonds for hospital and $200,000 bonds for city hall

Calif., Martinez—City votes July 15 on $50,000 bonds for school. Noted June 22.

Calif., Napa—S. M. Levee plans building. About $47,000. B. J. Joseph, 74 New Montgomery St., San Francisco, Arch.

Calif., Santa Barbara—Presbyterian Congregation receiving bids about Aug. 1 for church on East Anapamu St. About $100,000. Roland F. Sauter, Arch. Noted Sept. 30.

Calif., Yreka—A. F. & A. M. plans temple. About $40,000. F. E. Wadsworth, Chn. Ways and Means Com.

Bids In and Contracts Awarded

Maine, Portland—City let contract high school to F. W. CUNNINGHAM & SON.

Maine, Rockland—Knox Hospital Corporation let contract hospital to WILLIAM H. GLOVER CO., Rockland. Noted Mar. 2.

Maine, Sanford—(Official)—Sanford Building Co let contract bank and office building to OTTO NELSON CO., Bangor. About $75,000. Noted Apr. 27.

Vt., Richford—(Official)—City let contract 2-story, 78x114-ft. high school to W. B. FEER & CO., Richford Noted June 8.

Mass., Amherst—Chi Phi Fraternity let contract fraternity house to ALLEN BROS., Amherst. About $50,000. Noted June 8.

Mass., Canton—Morgan Construction Co., Milton, lowest bidder for administration building for Massachusetts Hospital School. S. W. Mead, 20 Pemberton Sq., Boston, Arch. Noted June 29.

Mass., Lynn—City let contract school to CHARLES W. WRIGHT, Security Trust Bldg. About $140,000. Noted June 29.

Mass., Newton—City let contract school to B. F. SMITH CO., 136 Federal St., Boston. About $50,000.

Mass., Quincy—(Official)—Alhambra Theater, Inc., let contract motion-picture theater to MORGAN & BOLT, $53,200. Noted Mar. 2.

Mass., Shelburne Falls—(Official)—Arms Academy let contract building to JOSEPH FOWLES, Northampton St., Holyoke. Noted June 1.

N. Y., Hamilton—Colgate University let contract 1-story, 65x114-ft. memorial building to EDWARD K. FENNO, 204 North Beech St , Syracuse. About $125,000. Noted Mar. 16.

N. J., East Orange—De Riso Bros , 3rd St , Union, lowest bidder addition to Elmwood School. Gilbert & Betelle, Newark, Arch. Noted June 8.

Penn., Pottstown—Bell Telephone Co. let contract building to F. H. KEISER & CO., Pottstown. About $40,000.

Va., Alexandria—Contract let Alexandria Hospital to RICHARDSON & BURGESS, Washington, D. C., $66,666. Noted Jan. 13.

W. Va., Charleston—(Official)—Citizens National Bank let contract remodeling building at Quarrier and Capitol St. to W. H. FISSELL & CO., 1328 Broadway, New York. Noted Apr. 13.

S. C., Chester—(Official)—Contract let to TAYLOR WATERS CO., Columbus, for 2-story domestic arts building on College St. school grounds. Noted June 22.

Fla., Ft. Meyers—M. O. Terry let contract remodeling Royal Palm Hotel and building addition to G. K. & E. M. WILLIAMS, Oeala. About $40,000. Noted Apr. 6.

Ohio, Ansonia—Board of Education let contract school to A. H. CLARK, Cincinnati.

Ind., Huntington—(Official)—Huntington County let contract hospital to INDIANA TRUST CO., Indiana Trust Bldg., Indianapolis, $42,400. Noted June 8

Ind., Indianapolis—Contract let to BEDFORD STONE AND CONSTRUCTION CO. for 5-story hotel. About $200,000. Noted Feb. 24.

Ind., Rome City—Kneipp Sanitarium let contract addition to KRATZER & SON, St. Louis, Mo. About $106,000. Noted June 8.

Mich., Manistique—Board of Education let contract high school to VALKIN CONSTRUCTION CO., Chicago, $105,000. Noted June 22.

Ill., Chicago—Chicago Telephone Co., 212 West Washington St., let contract 4-story build- at 3606 Ogden Ave. to A. DAVAGH. About $40,000.

Ill., Chicago—Thirteenth Church of Christ, 10317 Longwood Dr., let contract church to R. S. WOOD & CO. About $60,000.

Ill., Waukegan—First Methodist Congregation let contract church to JOHN A. SUTHERLAND, Waukegan. About $45,000. Noted May 11.

Iowa, Dubuque—(Official)—Dubuque German College and Seminary let contract service hall to ANTON ZWACK, Dubuque. Noted June 22

Iowa, Early—Board of Education let contract high school to GIRDES, HINTZ & McKEE, Creston, $62,000. Noted June 8.

Iowa, Lewis—(Official)—Consolidated School District let contract school to READ-MacDONALD BREWSTER, Minneapolis. About $70,000.

Iowa. Rockwell City—Bailey-Marsh Co., 25 Met. Life Bldg., Minneapolis, $97,750 lowest bidder for buildings for Iowa Industrial Reformatory. Noted Jan. 27

Iowa, Sioux City—First M. E Congregation let contract church at 19th and Nebraska St to DUBEL & ANDERSON, 513 Jackson St. About $60,000.

Minn., Ellendale—Contract let bank and office building to C. M. TAPAGER, 206 West Clark St., Albert Lea.

Kan., Parsons—City let contract high school to HERMAN MAILANDER, $45,422.

Neb., Chadron—(Official)—State Normal School let contract 3-story addition to F. E. MULLHOLEN, Chadron, $47,117. Noted June 1.

Neb., Kearney—Board of Education let contract gymnasium on State Normal Grounds to WALTER KNUTZEN, Kearney, $50,017. Noted June 1.

Neb., Wayne—Board of Education let contract gymnasium and industrial building to J. P. RIDDLE, Creighton, $62,000. Noted June 1

N. D., Bismarck—E. A Hughes let contract office building to MEINICKE BUILDING CO., Fargo.

N. D., Bismarck—Contract for addition to Evangelical Hospital let to WESTERN BUILDING CO., Minot, $53,700.

Wyo., Sheridan—(Official)—Contract let to N. A. PEARSON, Sheridan, $50,000, J. B. Kendrick Bldg. C. A. Randall, Arch.

Mo., St. Louis—Contract German Street Vincents Orphan Home on Florissant Ave., let to RATEMAN BUILDING AND CONSTRUCTION CO. About $200,000.

Tex., Clebourne—City let contract Rio Vista High School to EWING & MARCHANT, Paris.

Tex., Ennis—(Official)—City let contract high school to HECK & LIGHTFOOT, Ft. Worth. About $75,000. Noted June 22.

Tex., Lampass—School Board let contract high school to CASBEER & NICHOLS. About $50,000.

Idaho, Nampa—A. S. Whiteway, Boise, $43,315, lowest bidder for high school. Noted June 29.

Calif., Riverside—University of California let contract buildings for Citrus Experiment Station and Graduate School of Tropical Agriculture to CRESNER MANUFACTURING CO., Riverside. $99,829. Noted June 15.

Quick Work at Camp Whitman—On Friday, June 23, one of the officials of the 22nd Regiment, New York Engineer Corps, at Camp Whitman, telephoned the New York office of S. B. Whinery, Eastern Sales Manager of the American Wells Works, requesting that a representative come to camp and confer with regard to the pumping equipment which would be required for a water-supply. Mr. Whinery spent Saturday, the 24th, at the camp and after going over the situation thoroughly it was decided that a centrifugal pump to deliver 325 gal. per min. against a total head of 239 ft would meet the requirements in all respects. He telephoned the American Well Works, Aurora, Ill., at about 2:30 or 3 p.m. on Saturday and arranged for the immediate shipment by express of one No. 3½ Type I belt-driven pump. The pump was delivered to the camp officials at Poughkeepsie at about 9 a.m. on Sunday, the 25th, and according to a newspaper report reached Camp Whitman at Green Haven, N. Y., before day light on Monday, the 26th.

CALUMET INTERCEPTING SEWER, CHICAGO, ILL.

Bids received June 8 bw Commissioners of Sanitary District of Chicago for Calumet Intercepting Sewer, Contract Nos. 5 and 6, from (A) Marquette Construction Co., Chicago; (B) Byrne Bros. Dredging and Engineering Co.; (C) T. J. Forschner Contracting Co. The item bids were as follows:

	A	B	C
8,163 lin.ft. (a) concrete sewer, 17.5 ft. diameter	$76.00	$73.00	$80.00
8,163 lin.ft. (b) brick and concrete sewer, 17.5 ft. diameter	80.00	84.00	90.00
14 manholes on concrete sewer	70.00	60.00	75.00
14 manholes on brick and concrete sewer	75.00	85.00	75.00
Change of section on 104th st. concrete (lump sum)	500.00	50.00	200.00
Change of section on 104th st., brick and concrete (lump sum)	600.00	100.00	200.00
Crossing at 111th st. (lump sum)	475.00	2,500.00	2,000.00
Connection at South Park Ave. and 104th St	150.00	100.00	500.00
Connection at 106th st (lump sum)	100.00	100.00	125.00
Connection at 107th st. (lump sum)	100.00	100.00	125.00
Connection at 109th st. (lump sum)	100.00	100.00	125.00
Connection at 110th st. (lump sum)	100.00	100.00	125.00
Connection at 11th st. (lump sum)	150.00	100.00	125.00
Connection at 113th st. (lump sum)	100.00	100.00	250.00
Connection at 114th pl. (lump sum)	100.00	100.00	125.00
Sewer crossing at 105th st. (lump sum)	480.00	500.00	600.00
Sewer crossing at 107th st. (lump sum)	480.00	500.00	600.00
Sewer crossing at 111th st. (lump sum)	725.00	500.00	1,500.00
Sewer crossing at 113th st. (lump sum)	480.00	500.00	600.00
1,400 lin.ft. laying 12-in. tile pipe	1.25	2.00	1.25
1,200 lin.ft. laying 10-in. tile pipe	1.20	1.50	1.25
600 lin.ft. laying 9-in. tile pipe	1.00	1.50	1.00
28 manholes on tile pipe sewer	35.00	40.00	60.00
24 catchbasins	40.00	50.00	60.00
5 additional c.-i. manhole covers and frames	10.00	10.00	20.00
5 additional c.-i. catchbasin covers and frames	10.00	10.00	20.00
600 lin.ft relaying 6-in. sewer house connections	1.00	1.00	1.25
20 connections tile pipe for future connections; 18 in.	3.00	10.00	2.50
40 connections water service connections	5.00	12.00	15.00
600 lin.ft. relaying water service pipes	1.00	1.50	1.25
900,000 lb. reinforcing steel	.03¾	.04½	.05
500 lin.ft. additional piling, furnished	.20	.20	.30
500 lin.ft. additional piling, driving	.25	.20	.30
5 M ft. b.m. cribwork on piling	50.00	40.00	50.00
5 M ft. b.m. sheeting, shoring and bracing left in place	20.00	20.00	20.00
5 M ft. b.m. plank foundations	25.00	25.00	25.00
5 cu.yd. additional excavation in open cut	.75	.75	.75
5 cu.yd. rock excavation	3.00	3.00	3.00
5 cu.yd. additional concrete, Class B	7.50	7.50	7.50
5 cu.yd. additional concrete, Class C	7.00	7.00	7.00
5 cu.yd. additional brickwork	9.00	9.00	9.00
Extended totals for (a)	$667,284	$653,450	$716,321
Extended totals for (b)	$700,106	$743,643	$797,951

	A	B	C
7,235 lin.ft. (a) concrete sewer, 17.5 ft. diameter	$77.00	$71.00	$80.00
7,235 lin.ft. (b) brick and concrete sewer, 17.5 ft. diameter	81.00	90.00	85.00
1,740 lin.ft. concrete sewer, 54 in. diameter	9.50	8.00	9.00
1,740 lin.ft. brick sewer, 54 in. diameter	10.50	14.00	9.00
1,740 lin.ft. vitrified segmental block sewer, 54 in. diameter	10.50	13.20	12.00
1,740 lin.ft. reinforced concrete pipe sewer, 54 in. diameter	11.50	12.00	12.00
1,070 lin.ft. concrete sewer, 42 in. diameter	15.00	22.50	15.00
1,070 lin.ft. brick sewer, 42 in. diameter	17.00	25.00	15.00
1,070 lin.ft. vitrified segmental block sewer, 42 in. diameter	17.00	26.00	17.00
1,070 lin.ft. reinforced concrete pipe sewer, 42 in. diameter	18.00	26.00	17.00
770 lin.ft. laying 15 in. tile pipe	2.00	2.00	1.50
3,600 lin.ft. laying 12 in. tile pipe	1.75	2.50	1.25
1,250 lin.ft. laying 9 in. tile pipe	1.00	1.50	1.25
14 manholes on 17.5 ft. sewer, concrete	70.00	60.00	75.00
14 manholes on 17.5 ft. sewer, brick	75.00	85.00	75.00
6 manholes on 54-in. sewer, concrete	35.00	40.00	30.00
6 manholes on 54-in. sewer, brick	35.00	50.00	30.00
5 manholes on 42-in. sewer, concrete	35.00	75.00	65.00
5 manholes on 42-in. sewer, brick	35.00	85.00	65.00
43 manholes on tile pipe sewers	35.00	40.00	50.00
Crossing at 115th st. (lump sum)	475.00	2,500.00	2,500.00
Crossing Chicago & Western Indiana R.R. required for constructing sewer (lump sum)	8,000	2,000	12,000
Crossing Chicago & Western Indiana R.R. optional with railroad (lump sum)	1,500	10,000	1,500
Crossing, Illinois Central R.R. required for constructing sewer (lump sum)	600.00	1,000.00	5,000.00
Crossing, Illinois Central R.R. optional with railroad (lump sum)	600.00	2,500.00	500.00
Connection at 116th st. (lump sum)	150.00	100.00	150.00
Connection at 123rd st. (lump sum)	150.00	100.00	300.00
Connection at 124th pl. (lump sum)	150.00	100.00	400.00
Sewer crossing at 120th pl. (lump sum)	725.00	500.00	700.00
66 catchbasins	40.00	50.00	60.00
6 additional c.-i. manhole covers and frames	10.00	10.00	20.00
6 additional c.-i. catchbasin covers and frames	10.00	10.00	20.00
500 lin.ft. relaying 6-in. sewer house connections	1.00	1.00	1.25
200 replacing 6-in. house slant in 54 and 42-in. sewer	1.00	.75	1.25
10 connections tile pipe for future connections 18 in.	3.00	10.00	2.50
70 connections water service connections	5.00	12.00	15.00
2,300 lin.ft. relaying water service pipes	1.00	1.50	1.25
800,000 lb. reinforcing steel	.03¾	.04½	.05
200,000 lb. structural steel	.06	.06	.06
500 lin.ft. additional piling furnished	.20	.20	.30
500 lin.ft. additional piling driven	.25	.20	.30
5 M ft. b.m. cribwork on piling	50.00	40.00	50.00
5 M ft. b.m. sheeting, shoring, bracing or other timbering left in place	20.00	20.00	20.00
5 M ft. b.m. plank foundations	25.00	25.00	25.00
5 cu.yd. additional excavation in open cut	.75	.75	.75
5 cu.yd. additional excavation in tunnel	3.00	3.00	3.00
5 cu.yd. rock excavation	3.00	3.00	3.00
5 cu.yd. additional concrete, Class B	7.50	7.50	7.50
5 cu.yd. additional concrete, Class C	7.00	7.00	7.00
5 cu.yd. additional brickwork	9.00	9.00	9.00
1,000 cu.yd. stripping black soil	1.00	1.00	.35
Extended totals for (a)	$663,976	$644,306	$706,783
Extended totals for (b)	$696,866	$795,346	$472,958

ROAD, TUCSON, ARIZ.

Bids received June 15 by Pima County for Ajo Road, 26 mi. water-bound macadam, from (A) Warren Bros Co.; (B) Maney Bros. & Co.; (C) Toohey & Johnson; Bent Bros., $236,294; S P. Contracting Co, $142,945; Mesner & Rice, $185,399. The item bids of the 3 lowest bidders were as follows:

	A	B	C
Excavation, per cu.yd.	$0.25	$0.21	$0.26
Borrow pit, per cu.yd.	.25	.21	.26
Solid rock, per cu.yd.	1.30	1.50	1.60
Loose rock, per cu.yd.	.70	.55	.60
Reinforced concrete, cu.yd	12.00	14.00	13.50
Plain concrete dip, per cu.yd.	6.00	11.50	10.50
Plain concrete culvert walls	8.00	12.00	10.00
Plain concrete in aprons or checks	6.00	12.00	9.50
Macadam, Section A, per sq.yd.	.33½*	.48	.50
Macadam, Section B, per sq.yd.	.23*	.32	.40
Macadam, Class A, per sq.yd.	....	.48	....
Macadam, Class B, per sq.yd.	....	.32	....
Stone riprap, per cu.yd.	3.00	1.50	†6.00
Side ditch, per cu.yd	.40	.21	.50
Clearing, per acre	9.00	8.00	7.50
Grubbing, per acre	9.00	15.00	7.50
Excavating for footings, cu.yd.	.75	.40	.50
Setting corrugated culvert pipe—			
No. 16—12 in. diameter, per lin.ft. impl.	1.10	1.75	....
No. 16—18 in. diameter, per lin.ft. impl.	1.56	1.90	1.56
No. 16—24 in. diameter, per lin.ft. impl.	2.04	2.40	1.96
No. 14—30 in. diameter, per lin.ft. impl.	2.96	3.20	....
No. 14—36 in. diameter, per lin.ft. impl	3.54	3.90	3.46
Extended totals	$95,995	$118,509	$142,880
Wetting by sprinkling, rolling as go	3,660		
	$99,655		

*With water, 1½ times more. Water in some instances would have to be carted considerable distance. †Square yard.

WATER PIPE LINE, TRINIDAD, COLO.

Bids received by city June 19 for Sopris pipe line from (A) ALLEN & MURPHY CONTRACTING CO., Denver, (awarded contract); (B) W. G. Rupp; (C) F. C. Dreher Contracting Co.; Gordon & Taylor Construction Co., $59,203; Rowland, Erickson & Bessler, $82,265. The item bids of the 3 lowest bidders were as follows:

	A	B	C
26,169 cu.yd. earth excavation	$0.33	$0.525	$0.42
1,783 cu.yd. loose rock excavation	.40	.80	.66
2,681 cu yd. solid rock excavation	.60	1.50	-.68
300 cu.yd. borrowed earth excavation	.25	.40	.41
Dry rubble retaining wall, per cu.yd.	1.25	2.70	3.50
40 cu.yd. concrete	7.50	9.00	8.00
100 cu.yd. rubble masonry	4.50	5.50	6.50
Piles, per lin.ft.	.70	.90	1.00
3,466 lin.ft. steel pipe	.60	.30	.70
36,900 lin.ft. wood pipe	.96	.87	.96
Extra work, %	10	10	20
Extended totals	$49,286	$53,359	$55,624

BARGE CANAL, ALBANY, N. Y.—Contract No. 128

Low bids received May 23 by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal Work, Contract No. 128, constructing superstructure, substructure and approaches of highway bridge over Hudson River at Northumberland from (A) Holler & Shepard, E & B Bldg., Rochester; (B) Troy Public Works Co., Utica; (C) Great Lakes Dredge and Dock Co., Albany. The item bids were as follows:

	A	B	C
12,300 cu.yd. excavation	$0.40	$0.45	$0.55
291 cu.yd. lining	1.50	1.50	1.50
1,980 cu.yd. second-class concrete	7.50	8.00	7.90
719 cu.yd. fourth-class rip-rap	2.30	2.50	2.50
73.3 M ft. b.m. sawed lumber	60.00	60.00	60.00
698 lin.ft. wooden fence	.25	.25	.25
719,000 lb. structural steel	.056	.055	.05¼
6 oil signal lamps	15.00	15.00	15.00
Cofferdams, pumping, bailing and draining (lump sum)	7,500.00	9,500.00	9,000.00
Maintaining navigation (lump sum)	200.00	10.00	300.00
Maintaining highway traffic (lump sum)	2,000.00	1,500.00	1,600.00
Extended totals	$76,486.70	$78,826	$79,748

BARGE CANAL, ALBANY, N. Y.—Contract No. 129

Low bids received May 23 by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal Work, Contract No. 129, constructing substructure, superstructure and approaches of Freeman's Bridge over Mohawk River near Schnectady from (A) Foundation Co., 253 Broadway, New York; (B) Frank L. Cohen, Buffalo; (C) Charles Fath Co., Cleveland, Ohio. The item bids were as follows:

	A	B	C
9,540 cu.yd. excavation	$0.50	$0.60	$0.65
329 cu.yd. lining	1.40	1.50	1.80
533 cu.yd. concrete in pier below el. 199	22.00	20.00	21.00
2,010 cu.yd. second-class concrete	9.90	11.10	11.00
66.5 M ft. b.m. sawed lumber	60.00	60.00	60.00
17 M ft. b.m. wooden sheet piling	65.00	60.00	60.00
3,390 lin.ft. foundation piles	.25	.30	.35
790 lin.ft. wooden fence	.30	.25	.30
474 lin.ft. lattice railing	3.45	2.00	3.50
783,000 lb. structural steel	.0538	.054	.06¼
13,100 lb. c.-i. pipe	.03	.035	.03
10 oil signal lamps	20.00	15.00	17.00
Removing existing buildings (lump sum)	1.00	100.00	75.00
Maintaining navigation (lump sum)	1.00	100.00	75.00
Extended totals	$87,390	$89,451	$97,839

SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until July 14, 1916.

Pumping Engine

Erie, Pa., June 16th, 1916.

Sealed proposals for the design, construction and erection of a twenty million gallon turbine-driven centrifugal condensing pumping engine, addressed to the Commissioners of Water-Works in the City of Erie, will be received at the Water-Works Office, City Hall, Erie, Pennsylvania, until twelve o'clock noon, the 14th day of July, 1916, and will be opened and read publicly.

All bids shall be made upon the blank forms of the proposal blank contained in the pamphlet with the instructions to bidders, contract and specifications to be obtained on and after the 26th day of June, 1916, at the Office of the Commissioners, City Hall, Erie, Penna., and at the office of Chester & Fleming, Engineers, Union Bank Building, Pittsburgh, Penna.

Each proposal shall be accompanied by a certified check for One Thousand Dollars ($1,000.00), said check to be made payable to the Secretary, Commissioners of Water-Works in the City of Erie, Pa., and to be conditioned that if the bid is accepted, a contract will be entered into and the performance of same secured within ten (10) days after notification of the acceptance of the bid.

Commissioners do not bind themselves to accept the lowest bid, but reserve the right to reject any and all bids or select such bid as they may deem for the best interests of the City of Erie.

Upon the entering into a contract, or the rejection of all bids, checks will be returned to the bidders.

Copies of contract and specifications can be obtained at the office of the Commissioners or their Engineers, and intending bidder upon deposit of ten ($10) dollars will be entitled to two copies. Proper receipt for each such deposit will be given and the money will be refunded upon the return in good condition of the above, or in case one copy is used for bidding, the other will become the property of the bidder and deposit returned.

COMMISSIONERS OF WATER-WORKS
IN THE CITY OF ERIE, PENNA.
By GEORGE C. GENSHEIMER,
Secretary.

CHESTER & FLEMING, Engineers,
Union Bank Building, Pittsburgh, Pa.

⁂

Bids received until July 21, 1916.

Street Paving

Bluefield, W. Va.

Sealed bids will be received by the council of the city of Bluefield, W. Va., until the 21st of July, 1916, at 12 o'clock noon, for the paving of approximately 15,000 sq.yds. of bituminous macadam on concrete base, together with 14,000 lineal feet of combined concrete curb and gutter; also 1,600 sq.yds. concrete pavement, in accordance with the plans and specifications to be obtained from H. O. Wiles, City Engineer.

A certified check of $500.00 must accompany each bid.

The council reserves the right to reject any and all bids.

J. T. AKERS, Recorder.

Bids received until July 18, 1916.

State Highway Work

STATE OF MARYLAND
STATE ROADS COMMISSION
601 GARRETT BUILDING
Baltimore, Md.

Sealed Proposals for building 8 sections of State Highway, aggregating about 15.59 miles in length, and 1 bridge, as follows:

Contract No. BC-9A—
BALTIMORE CITY:

One section of Liberty Heights Avenue from Earle Avenue to Calloway Avenue, about 1.34 miles in length. (Sheet Asphalt.)

Contract No. 01-16—
CARROLL COUNTY:

One section through Sykesville, about 0.75 of a mile in length. (Macadam Resurfacing, Oil Bound.)

Contract No. D-17
DORCHESTER COUNTY:

One section through Hurlock, about 0.93 of a mile in length. (Macadam or Concrete.)

Contract No. F-18A—
FREDERICK COUNTY:

One section of Emmetsburg Pike, north from Thurmont, about 4.00 miles in length. (Macadam Resurfacing, Oil Bound.)

Contract No. F-24
FREDERICK COUNTY:

One section through Jefferson, about 1.00 mile in length. (Macadam Resurfacing, Oil Bound.)

Contract No. M-10—
MONTGOMERY COUNTY:

One section of road from Olney to Snells Bridge, about 5.55 miles in length. (Macadam or Concrete.)

Contract No. M-13A—
MONTGOMERY COUNTY:

One section of road between Norbeck and Olney, about 1.00 mile in length. (Macadam Resurfacing, Oil Bound.)

Contract No. P-15—
PRINCE GEORGE'S COUNTY:

One section through Upper Marlboro, about 1.02 miles in length. (Concrete Roadway.)

BRIDGE.

Contract No. BC-9, Br.—
BALTIMORE CITY:

One 5-span reinforced concrete bridge, about 150 feet in length, along Liberty Heights Avenue over Western Maryland Railway.

will be received by the State Roads Commission, at its office, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 18th day of July, 1916, at which time and place they will be publicly opened and read.

Bids must be made upon the blank form contained in the book of specifications. Specifications and plans will be furnished by the Comission upon application and cash payment of $1.00 as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred ($500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission, this 27th day of June, 1916.

E. H. ZOUCK, Chairman.
WM. L. MARCY, Secretary.

⁂

Bids received until July 18, 1916.

Metal Furniture and Equipment

Albany, N. Y.

Sealed proposals for Metal Furniture and Equipment for State House, Albany, N. Y., will be received by the Trustees of Public Buildings, Executive Chamber, Capitol, Albany, N. Y., until 3 o'clock P.M. on Tuesday, July 18, 1916, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent. (5%) of the amount of proposal. Contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent. (50%) of the amount of contract within thirty (30) days after official notice of awar dof contract, and in accordance with the terms of specification No. 2446. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the New York Office of the Department of Architecture, Room 1224 Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, Lewis F. Pilcher.

June 30, 1916.

⁂

Bids received until July 18, 1916.

Streets Improvements

Bound Brook, New Jersey.

Sealed Proposals will be received by the Mayor and Council of the Borough of Bound Brook until 8:30 p.m. on Tuesday, July 18th, 1916, at the Borough Hall in the American Hose Company Bldg., on East Second Street, in said Borough, for regulating and paving with Vitrified Brick and Granite Block certain streets in said Borough.

The Engineer's approximate estimate of the amount of pavement to be laid is 8,000 square yards.

Plans may be examined and specifications, etc., may be obtained at the Office of the Borough Clerk, Stanley Brampton, Main Street, Bound Brook, N. J., or at the office of the Engineers in charge, 109 Park Avenue, Plainfield, N. J.

F. A. DUNHAM-CLARIN CO.,
Engineers in Charge.

⁂

Excavation and Concrete Work

The Conners Bros. Co., 64 West 88th St., New York, N. Y., has 20,000 yds. of excavation and 8,000 yds. of concrete work to let.

Construction News

BUILDING OPERATIONS FOR JUNE

According to the permits issued in 64 of the leading cities of the country, operations for this month are equal if not greater than last month.. The total in the Eastern States amounts to $40,286,835, while for last month the total reached $48,656,657. As compared with the month of June, 1915, and increase in the total amount of work is practically 40% for in that month the total permits issued amounted to $24,071,891. The Eastern States for the first 6 months as compared with 1915 have almost an increase of $50,000,000.

In the Southern States for the month of June, 1916, the total was $3,594,436 against $3,018,795 for a similar period in 1915. Although little gain is noted here for the 6 months, the difference in 1916 compared with 1915 amounts to $7,000,000.

In the Central States as compared with last month a drop in operations is very evident. In the month of June $26,888,249 is the total amount of work estimated from plans filed as compared with the month previous when the total was $46,941,653. However as compared with a year ago the gain is practically $6,000,000. For the 6 months of the year 1916 compared with 1915 the gain is over $33,000,000.

The Western States are coming along at a rather even pace as compared with last month; the difference does not amount to over $200,000, a small amount considering the cities represented. The gain over last year is slightly over $1,000,000. For the first half of the year 1916 compared with 1915 the gain is over $8,000,000.

From the foregoing it is evident that operations are still climbing to record-breaking scales and without doubt shall continue so for some months to come. If reports had been received for 77 cities, this month's operations would in all probability equaled last month's record.

EASTERN STATES

	Month of June		First Six Months of Year	
	1916	1915	1916	1915
Albany. N. Y	$307,455	$359,405	$2,050,470	$2,011,990
Boston, Mass	2,179,666	1,448,299	16,992,447	14,067,304
Bridgeport, Conn	523,300	779,869	3,771,696	4,210,372
Buffalo, N. Y	1,691,000	1,667,000	5,742,000	5,597,000
Elizabeth, N. J	250,464	109,614	1,178,284	568,459
Erie, Penn	353,989	155,254	1,273,643	955,495
Harrisburg, Penn	126,155	221,950	908,346	842,130
Hartford, Conn	814,703	462,523	4,138,372	2,763,927
Hoboken, N. J	16,480	2,400	740,396	496,320
Jersey City, N. J	698,076	519,958	2,610,268	2,800,736
Newark, N. J	1,307,541	770,884	4,384,107	4,640,.66
New Bedford, Mass	210,925	201,150	2,949,490	1,816,574
New Haven, Conn	257,580	451,025	2,701,218	2,867,565
New York, N. Y.:				
Bronx	2,322,278	1,173,075	11,963,599	15,897,500
Brooklyn	4,102,609	4,063,355	23,742,884	12,267,245
Manhattan	16,322,110	3,290,330	66,047,954	39,638,720
Queens	1,428,403	1,744,075	12,393,065	10,015,546
Paterson, N. J	121,114	314,748	992,015	771,241
Philadelphia, Penn	5,147,115	3,873,850	25,053,720	19,066,390
Reading, Penn	69,750	152,900	642,400	556,575
Rochester, N. Y	662,042	969,632	4,846,834	4,757,668
Scranton, Penn	228,086	343,121	776,568	801,750
Springfield, Mass	898,918	451,538	3,854,886	3,269,189
Utica, N. Y	129,725	272,400	882,890	1,160,900
Wilkes-Barre, Penn	117,351	58,111	604,850	690,021
Totals	$40,286,835	$23,866,461	$201,242,402	$152,531,583

SOUTHERN STATES

	Month of June		First Six Months of Year	
	1916	1915	1916	1915
Chattanooga, Tenn	$58,645	$61,435	$1,096,446	$253,885
Dallas, Tex	311,440	142,125	2,276,362	1,524,515
Ft. Worth, Tex	87,138	52,553	958,282	453,358
Houston, Tex	231,594	114,392	1,399,829	838,662
Louisville, Ky	260,145	332,710	1,589,427	1,788,095
Memphis, Tenn	320,640	285,275	1,581,145	1,501,493
New Orleans, La	614,932	279,731	1,777,433	1,355,690
Norfolk, Va	200,894	245,384	2,086,223	1,037,468
Richmond, Va	359,096	264,398	2,693,394	1,734,662
San Antonio, Tex	109,425	98,310	817,211	648,530
Washington, D. C	1,040,487	1,142,482	5,979,095	5,240,159
Totals	$3,594,436	$3,018,795	$23,254,847	$16,376,517

CENTRAL STATES

	Month of June		First Six Months of Year	
	1916	1915	1916	1915
Akron, Ohio	$1,223,455	$318,900	$4,398,046	$1,516,690
Canton, Ohio	336,945	135,670	2,142,850	829,740
Cedar Rapids, Iowa	273,000	135,000	807,000	1,020,000
Chicago, Ill	11,050,700	7,613,500	63,078,900	40,273,050
Cincinnati, Ohio	1,082,580	940,635	5,172,605	5,667,664
Cleveland, Ohio	2,742,570	2,378,510	15,027,7.0	18,226,879
Columbus, Ohio	557,370	410,370	4,060,430	2,544,860
Davenport, Iowa	115,572	90,008	434,586	390,690
Des Moines, Iowa	204,220	150,252	1,170,114	833,115
Grand Rapids, Mich	460,153	216,908	2,052,435	1,340,099
Indianapolis, Ind	779,792	526,299	4,156,205	3,260,746
Kansas City, Kan	117,547	72,531	430,010	540,791
Kansas City, Mo	974,425	752,245	5,545,228	4,916,435
Milwaukee, Wis	997,111	838,841	5,213,547	4,756,860
Minneapolis, Minn	1,686,835	1,350,535	10,574,825	7,725,895
Oak Park, Ill	385,350	343,980	1,694,068	1,291,865
Omaha, Neb	604,900	594,590	3,282,597	2,654,430
St. Louis, Mo	1,215,520	1,465,695	6,793,542	6,454,703
St. Paul, Minn	1,206,075	1,169,946	5,447,255	5,628,552
Toledo, Ohio	595,104	762,845	5,342,839	4,030,204
Youngstown, Ohio	279,025	433,080	1,723,614	1,450,572
Totals	$26,888,249	$20,700,340	$148,548,486	$115,413,840

WESTERN STATES

	Month of June		First Six Months of Year	
	1916	1915	1916	1915
Denver, Colo	$370,250	$179,745	$2,141,840	$1,464,440
Los Angeles, Calif	1,037,532	997,240	6,793,267	6,278,440
Oakland, Calif	423,193	395,474	3,018,740	2,382,748
Portland, Ore	983,215	460,095	2,916,415	2,639,760
Salt Lake City, Utah	219,650	119,958	1,613,776	1,095,341
San Diego, Calif	98,725	71,803	1,114,237	656,387
San Francisco, Calif	2,046,756	891,007	10,740,264	6,566,267
Seattle, Wash	447,390	631,045	3,256,170	3,274,110
Spokane, Wash	138,415	231,305	827,178	704,871
Tacoma, Wash	204,617	56,828	743,619	463,514
Totals	$5,969,743	$4,034,500	$33,165,506	$25,525,878

WATER SYSTEM, EVERETT, WASH.

Low bids received by the city June 5 for the construction of a water system were from (B) WASHINGTON PAVING CO., Seattle (awarded contract); (C) Pacific Coast Pipe Co., Seattle; (D) Sound Construction and Engineering Co., Seattle; (E) Pederson & J. Block Masonry and Contracting Co., Seattle. The item bids were as follows:

CONTRACT NO. 2

	B	C	D
12,095 lin.ft. 28-in. wood pipe 0 to 40 ft	$0.95	$1.05	$1.11
2,391 lin.ft. 28-in. wood pipe 40 to 50 ft	.97	1.07	1.13
2,035 lin.ft. 28-in. wood pipe 50 to 60 ft	1.04	1.08	1.20
5,661 lin.ft. 28-in. wood pipe 60 to 70 ft	1.12	1.20	1.27
7,270 lin.ft. 28-in. wood pipe 70 to 80 ft	1.21	1.28	1.35
10,512 lin.ft. 28-in. wood pipe 80 to 90 ft	1.29	1.35	1.39
8,325 lin.ft. 28-in. wood pipe 90 to 100 ft	1.36	1.42	1.49
4,750 lin.ft. 28-in. wood pipe 100 to 110 ft	1.45	1.50	1.57
5,165 lin.ft. 28-in. wood pipe 110 to 120 ft	1.51	1.60	1.67
3,570 lin.ft. 28-in. wood pipe 120 to 130 ft	1.61	1.65	1.71
2,603 lin.ft. 28-in. wood pipe 130 to 140 ft	1.70	1.72	1.78
1,727 lin.ft. 28-in. wood pipe 140 to 150 ft	1.77	1.80	1.86
2,850 lin.ft. 28-in. wood pipe 150 to 160 ft	1.85	1.88	1.92
1,835 lin.ft. 28-in. wood pipe 160 to 170 ft	1.93	1.95	2.00
2,540 lin.ft. 28-in. wood pipe 170 to 180 ft	2.00	2.06	2.00
2,190 lin.ft. 28-in. wood pipe 180 to 190 ft	2.10	2.13	2.15
1,795 lin.ft. 28-in. wood pipe 190 to 200 ft	2.18	2.22	2.23
2,425 lin.ft. 28-in. wood pipe 200 to 210 ft	2.25	2.30	2.30
1,425 lin.ft. 28-in. wood pipe 210 to 220 ft	2.35	2.41	2.40
1,100 lin.ft. 28-in. wood pipe 220 to 230 ft	2.43	2.45	2.45
450 lin.ft. 28-in. wood pipe 230 to 240 ft	2.53	2.55	2.55
1,975 lin.ft. 28-in. wood pipe 240 to 250 ft	2.60	2.59	2.60
2,508 lin.ft. 28-in. wood pipe 250 to 260 ft	2.67	2.67	2.67
1,987 lin.ft. 28-in. wood pipe 260 to 270 ft	2.75	2.74	2.74
2,100 lin.ft. 28-in. wood pipe 270 to 280 ft	2.82	2.86	2.81
1,850 lin.ft. 28-in. wood pipe 280 to 290 ft	3.10	2.90	3.12
535 lin.ft. 28-in. wood pipe 290 to 300 ft	3.18	3.00	3.22
615 lin.ft. 28-in. wood pipe 300 to 310 ft	3.28	3.08	3.30
1,310 lin.ft. 28-in. wood pipe 310 to 320 ft	3.38	3.16	3.40
2,197 lin.ft. 28-in. wood pipe 320 to 340 ft	3.51	3.25	3.50
750 lin.ft. 28-in. wood pipe 340 to 350 ft	3.74	3.36	3.66
19 2-in. air valves on 28-in. pipe	40.00	40.00	50.00
30 2--in. air valves on 28-in. pipe	42.00	50.00	53.00
45 3-in. air valves on 28-in. pipe	44.00	55.00	54.43
73 8-in. blow-off valves on 28-in. pipe	48.00	50.00	45.00
200 lin.ft. 22-in. wood pipe 0 to 60 ft	.88	.90	.95
300 lin.ft. 22-in. wood pipe 60 to 70 ft	.92	.94	.99
495 lin.ft. 22-in. wood pipe 70 to 80 ft	.98	.98	1.04
485 lin.ft. 22-in. wood pipe 80 to 90 ft	1.03	1.06	1.09
660 lin.ft. 22-in. wood pipe 90 to 100 ft	1.08	1.10	1.13
370 lin.ft. 22-in. wood pipe 100 to 110 ft	1.15	1.15	1.18
515 lin.ft. 22-in. wood pipe 110 to 120 ft	1.19	1.22	1.23
1,195 lin.ft. 22-in. wood pipe 120 to 130 ft	1.26	1.27	1.28
430 lin.ft. 22-in. wood pipe 130 to 140 ft	1.31	1.32	1.33
390 lin.ft. 22-in. wood pipe 140 to 150 ft	1.35	1.37	1.37
365 lin.ft. 22-in. wood pipe 150 to 160 ft	1.41	1.41	1.43
985 lin.ft. 22-in. wood pipe 160 to 170 ft	1.47	1.47	1.47
585 lin.ft. 22-in. wood pipe 170 to 180 ft	1.52	1.52	1.51
625 lin.ft. 22-in. wood pipe 180 to 190 ft	1.59	1.62	1.57
1,825 lin.ft. 22-in. wood pipe 190 to 200 ft	1.64	1.67	1.61
2 2½-in. air valves on 22-in. pipe	42.00	40.00	53.00
4 3-in. air valves on 22-in. pipe	44.00	60.00	54.43
6 8-in. blow-off valves in 22-in. pipe	48.00	60.00	45.00
Extended totals	$192,252	$194,650	$197,630

CONTRACT NO 3

	E	C	D
22,037 lin.ft. 28x¼-in. riveted steel pipe	$4.60	$5.10	$5.10
100 lin.ft. 28x⅜-in. riveted steel pipe	7.00	10.00	7.65
7 2-in. air valves	30.00	40.00	50.00
1 2½-in. air valves	35.00	50.00	53.00
2 3-in. air valves	35.00	60.00	55.00
15 8-in. blow-off valves	40.00	60.00	45.00
Extended totals	$104,900	$119,130	$120,000

Sundry Civil Bill—The sundry civil bill passed by Congress contains the following items: For public buildings under the Treasury Department, $7,267,000 for continuation and completion of projects under way; $4,683,400 for the War Department for arsenal improvements, including $500,000 for powder plant; $127,000 for buildings on army posts; $1,000,000 to be spent on Scofield Barracks, Hawaii; reclamation service, $8,884,000 for work on all projects; $16,800,000 for Panama Canal work, and $6,247,620 to be used by the Alaskan Engineering Commission.

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

New York—New York Central R.R. granted franchise to double-track line through Webster St., North Tonawanda. G. W. Kittredge, New York, Ch. Engr.

West Virginia—Pennsylvania R.R. plans railway from Wheeling to Marianna, Penn. B. M. Langhead, 375 South Main St., Washington, Penn., Locating Engr. A. C. Shand, Philadelphia, Ch. Engr.

Florida—House of Representatives passed bill authorizing G. H. Hervey, Pensacola, to build railway on military reservations of Ft. Barrancas and Ft. McRae, Pensacola. Noted Mar. 2.

Florida—H. C. Case, St. Petersburg, asked County Commissioners, Indian Spring, for permission for railway on county road from Jungle to Seminole Bridge.

Florida—Tampa & Eastern Traction Co. received charter for railway from Tampa to Lakeland, 33 mi. F. L. Cooper, Tampa, Secy. Noted June 8.

Mississippi—Citizens, Clarksdale, voted $100,000 bonds for proposed railway from Webb to Clarksdale, 22 mi.

Kentucky—Tennessee & Kentucky Interurban R.R. granted franchise to construct line from Nashville to Russellville. P. D. Denton, Nashville, Secy.

Indiana—Evansville & Indianapolis Ry. plans to spend $300,000 for improvements and new equipment at Evansville. C. B. Falley, Terre Haute, Supt.

Illinois—J. W. Dawson, Westfield, interested in railway from Charleston to Terre Haute.

Illinois—Chamber of Commerce, Springfield, interested in electric railway through southern Illinois from Springfield to Cairo or other terminal on Ohio River.

Illinois—Chicago, Fox Lake & Northern Railroad Co. plans line from Chicago to Fox Lake and Geneva Lake, Wis., 110 mi. H. O. Strauss, Harris Trust Bldg., Engr.

Illinois—Tri-City Railway Co. plans to double-track from Sears to Center Station. J. G. Huntoon, Davenport, Iowa, Gen. Mgr.

Iowa—Southern Iowa Railway, Light and Power Co. plans to spend $50,000 for improvements at Albia. C. B. Judd, Albia, Ch. Engr.

Kansas—Topeka Railway Co. plans to increase capital stock from $1,210,000 to $2,250,000 for interurban line from Topeka to Lawrence. A. M. Patten, Topeka, Gen. Mgr.

Montana—Minneapolis, St. Paul & Sault Ste. Marie R.R. plans line to Sidney. C. N. Kalk, Minneapolis, Minn., Ch. Engr.

Missouri—Kansas City & New Orleans R.R. plans line from Kansas City through Monette, Mo., Heber Springs, Little Rock and Monticello, Ark., Monroe and Alexander into New Orleans, La. P. C. Allen, St. Louis, Supt. Constr.

Arkansas—Ft. Smith, Subiaco & Eastern R.R. plans extension from Scranton to connection with Rock Island R.R. at Dardanelle. J. H. Wright, Ft. Smith, Secy.

Texas—(Press)—City Government, Houston, plans railway yards and tracks on south side harbor turning basin. E. E. Sands, City Engr.

Idaho—Oregon Short Line R.R. to enlarge yards at Emmet. C. Stradley, Salt Lake City, Utah, Ch. Engr.

Idaho—Oregon-Washington Railroad and Navigation Co. plans line into Clearwater Timber Belt, Lewiston. About $2,000,000. S. Murray, Portland, Ore., Act. Ch. Engr.

Utah—Denver & Rio Grande R.R. made surveys for ½ of line in Uintah Basin, eastern Utah. J. G. Gwyn, Denver, Colo., Ch. Engr. Noted Mar. 16.

Utah—Ogden, Logan & Idaho R.R. plans branch line from Washington Ave. up 29th St. to Jefferson Ave., Ogden. P. D. Kline, Ogden, Gen. Mgr.

Arizona—Carlisle Mining Co. plans railway from Duncan, Ariz., to mines at Steeplerock, N. M., 13 mi. H. K. Welch, Steeplerock, Mgr.

California—Indian Valley Railroad Co. incorporated with $600,000 capital to construct railway from Keddie to Engels Mine, Plumas County, 26 mi. W. Engels, interested.

California—Pacific Electric Ry. plans extension of Visalia Electric Ry. from Exeter southerly along foothills to Lindsay and El Mirador country. J. E. Pillsbury, Los Angeles, Ch. Engr.

California—Pacific Electric Ry. plans to extend line from Los Angeles to San Diego, via Fullerton, Anaheim and Santa Ana. J. McMillan, Los Angeles, Gen. Mgr.

California—Western Pacific R.R. plans to reorganize, to issue $75,000,000 in stock, $28,000,000 immediate bonds and finally $30,000,000 for property, $2,500,000 of latter to be used for improvements, $3,500,000 for freight and passenger equipment and $10,500,000 for feeder lines. State Railroad Commission approved plans. T. J. Wyche, San Francisco, Ch. Engr.

British Columbia—Pacific Great Eastern Ry. plans new line from Clinton to St. George. J. Callaghan, Vancouver, Ch. Engr.

Bids In and Contracts Awarded

Maryland—Georges Creek & Cumberland R.R. let contract spur to plant of Maryland Coal Co., Lonaconing, to KEELEY BROS., Clarkesburg, W. Va.

Iowa—(Official)—Chicago, Milwaukee & St. Paul Ry. let contract improving yards at McGregor to MORRIS, SHEPARD & DOUGHERTY, 814 Globe Bldg., St. Paul.

Texas—Wichita Falls & Northwestern Ry. let contract 45 mi. of line to J. L. TOBEY & CO., Terrell. W. A. Webb, Dallas, Gen. Mgr.

LIGHT, HEAT AND POWER

Proposed Work

Mass., Millbury—See item under "Industrial Works."

Conn., Torrington—Henry Riler made plans for rein.-con. boiler house at 422 Main St. W. Workman, Arch.

N. Y., Waverly—Bd. Trustees and Sayre Electric Co. plan to extend lighting system.

N. J., Glassboro—Whitney Glass Works making plans for gas producer plant. De Vore & McGormley, 304 Nasby Bldg., Toledo, Ohio, Arch.

Penn., Philadelphia—T. Wolstenholme Sons & Co., Frankford Ave., made plans for 2-story power plant.

Penn., Zenienople—See item under "Water-Works."

Md., Chestertown—Washington Co. making plans for boiler house, about $10,000. J. T. Bramble, 2 East Lexington St., Baltimore, Arch. and Supt.

N. C., Boone—Boone Fork Lumber Co. plans hydro-electric plant at Boone's Fork Falls. D. R. Shearer, Engr.

La., White Castle—See item under "Water-Works."

Ohio, Upper Sandusky—Hardin-Wyandot Lighting Co. authorized by State Public Utilities Comn. to issue $25,000 bonds for transmission line from Upper Sandusky to Kenton.

Ind., Westport—City rejected bids for electric-lighting system. New bids July 24.

Mich., Detroit—Continental Motor Manufacturing Co. plans power plant. W. H. Reddig, Gen. Supt.

Mich., Lansing—W. K. Prudden Co. making plans for 1,500-hp. power plant. B. E. Parks & Sons, Grand Rapids, Arch.

Ill., Alvin—Alvin Grain and Electric Co., incorporated with $10,000 stock, to construct electric-light plant. F. M. Yeazel, interested.

Ill., Berwyn—Council receiving bids July 18 for lighting system. About $18,000.

Ill., Blue Island—Public Service Co. of Northern Illinois, 72 West Adams St., Chicago, making plans for addition to power house, about $200,000. Von Holst & Fyfe, 72 West Adams St., Chicago, Arch.

Ill., Mt. Sterling—City plans electric-light plant.

Wis., Altoona—City plans electric-light plant.

Wis., Oregon—Oregon Electric Co. plans electric-light plant.

Iowa, Dayton—Citizens voted $15,000 bonds for distribution system in Dayton and transmission line to Harcourt.

Minn., Argyle—Citizens voted $18,500 water works and electric-light bonds. Noted May 11.

Kan., Belpre—City election July 26 to vote on $10,000 electric-light system and transmission line bonds postponed. Noted June 15.

Kan., Blue Rapids—Marshall County Power and Light Co. granted franchise to construct electric-light plant and heating system in Blue Rapids. Noted Mar. 16.

Kan., Garfield—A. M. Moe, Kingsley, asked Council for franchise to construct transmission line and distribution system in Garfield.

Neb., Holbrook—(Official)—City soon receives bids for electric-light system, about $8,700. S. F. Davis, Clk. Grant & Fulton, Lincoln, Engr.

Neb., Paxton—City to install electric-light plant.

Neb., Valentine—City plans to improve electric-light plant and extend distribution system.

S. D., Alcester—City receiving bids July 19 for transmission line from Alcester to Harwarden, Iowa, 8 mi. A. A. Treick, Audr. E. D. Jackson, 601 Capital Bank Bldg., St. Paul, Minn., Engr. Noted Mar. 30.

Mont., Malta—See item under "Water-Works."

Mo., Clearmont—Citizens voted franchise to Maryville Electric Light and Power Co. to construct transmission line and distribution system. E. W. Dusenberry, Maryville, Engr.

Okla., Goltry—City receiving bids July 20 for electric-light plant. Benham Engineering Co., Colcord Bldg., Oklahoma, Engr. Noted Jan. 6.

Okla., Miami—See item under "Water-Works."

Colo., Louisville—Commercial Association plans power plant.

Ariz., Bouse—Ne La Paz Coal Mining Co. plans electric-light plant, also transmission lines to mining camps in district.

Que., Crabtree Mills—Crabtree Paper Co. making plans for dam and power plant, about $7 [illegible] R. S. Kelsch, Power Bldg., Montreal, Arch.

Que., Magog—Dominion Textile Co. making plans for dam and power plant, about $7 [illegible] R. S. Kelsch, Power Bldg., Montreal, Arch.

Bids In and Contracts Awarded

N. J., Penns Grove—Salem & Penns Grove Traction Co. let contract power house to [illegible] D. Burns, Drexel Bldg., Philadelphia; substation to J. A. BADER CO., Du Pont Bldg., Wilmington.

Mich., Charlotte—Dry Milk Co. let contract power house to H. L. VAN DER HORST, [illegible] and Walnut St., Kalamazoo, about $25,000.

Mo., Smithton—Council let contract electric-light plant to S. V. MONSEES.

BRIDGES

Proposed Work

Maine—Brunswick—City plans bridge. About $15,000.

Maine, Southport—City making plans for bridge from Southport to Boothbay. About $17,500. Paul D. Sargent, Engr.

Mass., Holyoke—(Official)—Bd. Pub. Wks., Room 2, City Hall, receiving bids July 21 for rein.-con. foot bridge. T. J. McCarthy, City Engr. Noted Mar. 23. (See adv. July 6 issue.)

N. Y., Binghamton—(Official)—City does not plan bridge on Washington St. as stated in issue of June 29.

N. Y., Cohoes—City making plans for bridge between Cohoes and Lansingburgh. Bids about Aug. 1. About $52,000. A. E. Roche, Engr.

N. Y., Colden—City making plans for concrete bridge. About $5,000. J. G. Allen, Supvr.

N. Y., Delavan—State Highway Dept., 55 Lancaster St., Albany, making plans for rein.-con. bridge in Cattaraugus County, about $20,000. A. Bird, Ellicottsville, Supt. Highways.

N. Y., Freedom—State Highway Dept., 55 Lancaster St., Albany, making plans for rein.-con. bridge in Cattaraugus County, about $9,000. A. Bird, Ellicottsville, Supt. Highways.

N. Y., Great Valley—State Highway Dept., 55 Lancaster St., Albany, making plans for rein.-con. bridge in Cattaraugus County, about $7,000. A. Bird, Ellicottsville, Supt.

N. Y., New Hartford—City plans rein.-con. bridge. About $5,000. Arthur O'Brien, Supt. Highway.

N. Y., North Tonawanda—New York Central R.R. plans bridge at Webster St.

N. Y., Yorkshire—State Highway Dept., 55 Lancaster St., Albany, making plans for rein.-con. bridge in Cattaraugus County, about $9,000. A. Bird, Ellicottsville, Supt. Highways.

N. J., Hackensack—County plans to repair Anderson St. bridge. Joseph Kinzley, Hackensack, County Comr.

N. J., Newark—Bd. Freeholders receiving bids July 25 for improving Hackensack River Bridge with wood block paving.

N. J., Somerville—County receiving bids July 18 for bridge work. J. Doughty, Jr., Somerville, County Engr.

Penn., Bethlehem—County receiving bids July 28 for strengthening and relaying floor of bridge over Monocacy Creek. Address County Clk., Easton. Noted June 22.

Penn., Lewisburg—Union County receiving bids July 22 for rein.-con. girder bridge over Rapid Run, West Buffalo Township. G. T. Biehl, Lewisburg, Clk.

Penn., Paxtang—Park Dept., Harrisburg, plans concrete bridge or girder structure over tracks of Reading Ry. to connect links of boulevards. About $30,000 and $15,000 respectively. E. Z. Gross, Calder Bldg., Harrisburg, Comr.

Penn., Pittsburgh—Allegheny County plans bridge between Bellevue and city line on north side. Address County Clerk, Pittsburgh.

Penn., Shamokin—City making plans for Watsontown-White Deer Bridge over Susquehanna River, about $150,000. M. J. Flynn, Mt. Carmel, Engr.

Penn., Uniontown—County receives bids for 5 bridges. J. T. Gephart, Jr., Engr.

Penn., Williamson—County receiving bids July 25 for rein.-con. bridge over Dry Run. W. S. Kolb, Chambersburg, Clk. Noted May 4.

Penn., Yukon—Westmoreland County receiving bids about July 15 for rein.-con. bridge over Sewickley Creek, Sewickley Township. J. Sell, Greensburg, Controller.

Md., Baltimore—State Road Comn. receiving bids July 18 for 5-span rein.-con. bridge on Liberty Heights Ave. over Western Maryland Ry. W. M. Marcey, Secy. Comn.

Va., Petersburg—(Official)—R. D. Budd, City Engr., receiving bids Aug. 15, for viaduct on 2nd St. over tracks of Norfolk & Western Ry. and Atlantic Coast Line R.R. (See adv.)

W. Va., Union—County Court receiving bids July 19 for bridge over Rich Creek. Address County Clk., Union.

Ga., Newman—County receiving bids Aug. 4 for steel bridge across Charrahoochee River at Moores Ferry on Newman and Carrollton Rd. T. G. Farmer, Jr., Newman, County Clk.

Ga., Sandersville—Washington County plans bridge over Limestone Creek on Dixie Highway. Address County Clerk, Sandersville.

Fla., Miami—City making plans for bridge at Ave. G, about $40,000.

Tenn., Knoxville—City plans viaduct across railway tracks at State St.

Ky., Franklin—Simpson County receives bids for steel bridge over Red River, about $10,000. Address County Clk., Franklin.

Ohio, Akron—County receiving bids July 26 for enlarging bridge over Cuyahoga River on Portage St. U. G. High, Akron, County Clk.

Ohio, Columbus—Franklin County Comrs. receiving bids July 28 for bridge work per Estimates 305 and 309. John Scott, Columbus, Clk.

Ohio, Coshocton—County plans to replace Big Island Bridge, about $10,000. Address County Clk., Coshocton.

Ohio, Cuyahoga—County receiving bids July 23 for rebuilding bridge over Portage St. V. C. High, Akron, Clk.

Ohio, Dayton—County sold $70,000 bonds for Upper Union and Shoups Mill Bridges. Victor C. Smith, Dayton, County Surv. Noted June 15.

Ohio, Dover—City making plans for steel viaduct over Baltimore & Ohio R.R. G. E. Arnold, City Engr.

Ohio, Lancaster—County receiving bids July 17 for Jacob Thomen bridge. H. C. Roller, Lancaster, Audr.

Ohio, New Mansfield—Richland County soon lets contracts for 50 bridges. E. A. Merkel, County Engr.

Ohio, Ottawa—County receiving bids July 22 for bridge work. John E. Roose, Ottawa, Audr.

Ohio, Warren—County receiving bids July 31 for Halstead, Sweet, Parrish and Hoskins Bridges. W. L. Hoffman, Warren, County Clk.

Ind., Frankfort—Clinton County receiving bids July 19 for bridge work. Edward Spray, Frankfort, Audr.

Mich., Flint—Chevrolet Motor Co. will build bridge over Flint River between Stevenson and Wilcox St. About $35,000. Address Charles Spreem.

Mich., Marshall—City made plans for South Kalamazoo Ave. Bridge. L. A. Boulay, Toledo, Engr. Noted Apr. 20.

Mich., Saginaw—(Official)—City receiving bids July 18 for rebuilding Mackinaw St. Bridge. E. H. Eymer, City Engr. Noted June 22. (See adv. July 6 issue.)

Ill., Belvidere—County receiving bids July 17 for repairing Covey Bridge. Address County Clk., Belvidere.

Ill., Canton—Fulton County plans bridge in Union Township. About $6,500. C. Older, Capitol Bldg , Springfield, Engr.

Ill., Chicago—City receives bids for steel bascule bridges at Wells, Clark, Franklin and Orleans St. Thomas Pihlfeldt, 402 City Hall, Bridge Engr. Noted July 6.

Ill., Decatur—City adopted plans for viaduct to Glenwood cemetery, about $5,000.

Ill., Galva—County receiving bids July 17 for 2 rein.-con. bridges at Galva. J. H. Reed, Cambridge, County Supt. Highways.

Ill., Hardin—County receiving bids July 31 for bridge work in Road District No. 1, about $6,700. Address County Clk., Hardin.

Ill., Lewistown—County plans Indian Ford Bridge in Young Hickory Township, about $12,000. Address County Clk., Lewistown.

Ill., Lincoln—City plans bridge over Salt Creek.

Ill., Pekin—City making plans for viaduct on 8th St. B. E. Smith, Engr.

Ill., Pekin—County rejected bids for Brecher Bridge, Groveland Township. New bids July 15. Address County Clk., Pekin. Noted June 29.

Ill., Rockford—County making plans for bridges. About $34,000. A. R. Carter, Rockford, Supt. Highways.

Wis., Detroit—City made plans for Fourth St. Bridge. About $5,000.

Wis., Prairie du Chien—(Official)—City receiving bids July 27 for rein.-con. girder bridge. W. G. Kirchoffer, Madison, Engr. Noted Mar. 16.

Minn., Belgrade—Town receiving bids July 17 for concrete culverts and retaining walls.

Minn., Detroit—County plans bridge. J. A. Narum, Detroit, Audr.

Minn., Ellendale—County plans Bridge No. 2301. C. E. Brainard, Owatonna, Audr.

Minn., Thief River Falls—(Official)—Pennington County receiving bids July 20 for bridge over Thief River Falls. Address County Clerk, Thief River Falls.

Minn., Walker—County making plans for bridge over Pine River. C. D. Bacon, Walker, Audr.

Wyo., Greybull—(Official)—County receives bids for bridge over Greybull River. Address County Clerk, Basin.

Colo., Gunnison—County will build 110-ft. steel bridge over Gunnison River. R. L. Lebell, Gunnison County Clk.

Idaho, Rexburg—Madison County voted $50,000 bridge and road bonds. Address County Clerk, Rexburg.

Idaho, Wallace—City making plans for bridge over south fork Cœur d'Alene River. A. Merriam, City Engr.

Wash., Colfax—County Commissioners, Colfax, authorized J. M. McCaw, County Engr., to make plans and submit cost of bridge over South Palouse River.

Wash., Spokane—City plans concrete bridge at Post St. M. Macartney, City Engr.

Ore., Portland—County receiving bids July 19 for concrete arch bridge and retaining wall on Base Line Extension Highway. Address County Clerk, Portland.

Calif., Kingsburg—County receives bids soon for completion rein.-con. bridge over King River. Address County Clk., Visalia.

Calif., Live Oak—Yuba and Sutter Counties plan election to vote on $70,000 bridge bonds. Address County Clerk, Yuba City.

Calif., Rio Vista—Solano and Sacramento Counties plan bridge across Sacramento River at Rio Vista. F. A. Steiger, Fairfield, Engr. Solano County.

Calif., Stockton—County receiving bids July 17 for pile trestle bridge on county highway. F. F. Quail, County Surv.

Ont., Mimico—Town receiving bids July 17 for rein.-con. culverts. J. A. Telfer, Clk.

Ont., Wheatley—Council plans repair of Two Creeks Bridge. J. W. Kennedy, Clk.

Sask., Saskatoon—Provincial Bd Highway Comrs. receives bids for asphalt pavement on bridge. About $26,000.

Bids In and Contracts Awarded

Maine, Portland—Maine Central R.R. let contract Park Ave. bridge to AMERICAN BRIDGE CO., 120 Franklin St., Boston. About $70,000. Noted Mar. 30.

Mass., North Adams—City let contract Bulkley St. Bridge to W. N. TULLER, North Adams.

Conn., Windsor—State Highway Comrs. let contract bridge over Farmington River to C. A. SILBEY, 902 Chapel St., New Haven. C. J. Bennett, Comr.

N. Y., Ogdensburg—City let contract viaduct to MECCA CONSTRUCTION CO., Morristown, about $50,000.

N. J., Summit—Morris and Union Counties let contract bridge over Passaic River to FOSTER CONSTRUCTION CO , Kinney Bldg , Newark, $12,850. Noted June 15.

Penn., Beaver Falls—(Official)—County let contract county line bridge over Readons Run to FARRIS ENGINEERING CO., Empire Bldg., Pittsburgh. Noted June 29.

Penn., Philadelphia—City let contract repairing Rhawn St Bridge to HORSEHEADS CONSTRUCTION CO , Horseheads, N. Y., about $16,000. Noted June 29.

Penn., Pittsburgh—Allegheny County let contracts bridges to FARRIS ENGINEERING CO , Jenkins Arcade, and PITTSBURGH SANITARY FLOORING CO , 1st and McKean St., about $58,700.

Va., Clintwood—County let contract 2 steel bridges over Russell Fork Sandy River to ROANOKE BRIDGE CO., $7,190. Noted May 25.

Va., Richmond—City let contract 5 sections Shockoe Creek Culvert to ELKAN & TUFT, Baltimore, $280,000. Noted Jan. 27.

Tenn., Rialto—Tipton County let contract bridge over Big Hatchie River to LARIMER & BURGETT BRIDGE CO., Memphis, $39,500.

Ohio, Cleveland—(Official)—Cuyahoga County let contract bridge work per report No. 3764 to FRAZIER SHEAL CO., $18,791. Noted June 22.

Ind., Jasper—(Official)—County let contract concrete bridge over Pataka River to BLENKER & GIHLHAUSEN, Jasper, $9,978. Noted June 29.

Ind., Plymouth—(Official)—County let contract bridge work to VAN SKYHAWK & KNOBLOCK, Bremen, $5,380. Noted June 22.

Mich., Sault Ste. Marie—State let contract 3 bridges on Brimley Rd. to SMITH & GRANUM.

Ill., Chicago—Cook County let contract Grove St. Bridge to OLTENBERG CONSTRUCTION CO , Palatine, $4,885.

Ill., Mt. Sterling—McDonough County let contract 8 bridges and culverts to MILLER & HUSBAND, Springfield, about $4,000.

Wis., Ellsworth—County let contracts bridges to E. LYNCH, New Richmond, WAUSAU IRON WORKS, Wausau, and F. BROOKSHAW, Ellsworth.

Wis., Stevens Point—County received low bids Rocky Run Bridge from Minneapolis Bridge Co., Minneapolis, $6,200, concrete, $5,675, steel. Noted Apr. 27.

Iowa, Marshalltown — (Official) — County let contract 30 bridges to PICKUS ENGINEERING AND CONTRACTING CO., Sioux City, $28,900. Noted June 29.

Iowa., Waterloo—County let contract bridge over Dry Run to THOR CONSTRUCTION CO., Waterloo, $21,190.

Kan., Larned—(Official)—Pawnee County let contract 2 rein.-con. double arch bridges over Pawnee River to TOPEKA BRIDGE AND IRON CO., Topeka, $6,300. Noted June 22.

Neb., O'Neill—(Official)—Holt County let contract bridge over Niobrara River to WESTERN BRIDGE AND IRON CO., Omaha, $9,600. Noted June 8.

N. D., La Moure—(Official)—La Moure and Dickey Counties rejected bids for steel bridge over James River. Noted June 15.

N. M., Las Cruces—(Official)—Dona Ana County let contract 5 bridges to EL PASO BRIDGE AND IRON CO., El Paso, $30,721. Noted June 8.

Mont., Coberg—County let contract bridge over Milk River to O. E. PEPPARD, Missoula, $6,797.

Tex., Austin—City let contract bridge over Waller Creek on 19th St. to McDONALD CONSTRUCTION CO., Austin, $8,785.

Utah, Salt Lake City—City let contract bridge over Jordan River to MIDLAND BRIDGE CO., $11,543. Noted June 22.

Calif., Oroville—Northern Electric Railway Co. let contract bridges over American and Feather Rivers to MISSOURI VALLEY BRIDGE CO., Leavenworth, Kan., about $55,000.

Calif., Redding—Howard S. Williams, Sacramento, $18,044, low bidder rein.-con. bridges in Shasta County.

Calif., Sacramento—(Official)—State Highway Comn. received low bid for 2 rein.-con. bridges in Shasta County, Div. 2, Route 3, Sec. C, Sacramento River and Salt Creek Bridges, from H. S. Williams, San Francisco, $18,044. Noted June 22 under Baird.

Calif., Woodland—State Highway Comn. let contract Yolo-Solano Bridge across Putah Creek to CLINTON CONSTRUCTION CO., San Francisco, $35,000.

Ont., East Williamsburg—Township Council let contract 2 rein.-con. bridges to PETROLIA BRIDGE CO., Petrolia.

N. B., Fredericton—Provincial Government let contracts superstructures of bridges: MARITIME BRIDGE CO , Scadouc River Bridge, Westmoreland County, $8,048; Armstrong Bridge, Restigouche County, $17,465; DOMINION BRIDGE CO., Aroostook Mouth Bridge, Victoria County, $33,318, Jemseg Bridge, Queens County, $35,093.

WATER-WORKS

Proposed Work

N. Y., Little Falls—City plans water mains. J. E. Stacey, Pres.

N. Y., Oneida—City election soon to vote on water-works bonds. H. M. White, Supt. Noted July 6.

N. Y., Red Creek—(Official)—Village receiving bids Aug. 10 for water plant. F. M. Jones, Village Clk. Noted June 15. (See adv.)

N. J., Morrisville—Citizens defeated bond issue for filter plant. State may take up project. Noted June 1.

Penn., Clermont—City plans water-works.

Penn., Waynesboro—City making plans for water-works. Gennett, Seayle & Fleming, Telegraph Bldg., Harrisburg, Engr.

Penn., Zelienople—City voted $12,000 water-works and electric-light plant bonds.

W. Va., Fairmont—(Official)—City receiving bids July 21 for about 10 mi. 10-, 6- and 4-in. c.-i. pipe line, concrete reservoir and pump house. F. K. Day, Div. Engr. A. Bowen, Mayor. (See adv. July 6 issue).

N. C., Leakesville—City plans water-works and sewers.

S. C., Charleston—(Press)—City to extend water and sewer systems. J. M. Worthen, Supt.

S. C., Conway—City election July 25 to vote on $10,000 water-works bonds. Noted Mar. 30.

Ga., Manchester—City soon votes on $60,000 water and sewer systems bonds.

La., White Castle—City plans water-works and electric-light plant.

Miss., Clinton—City plans to issue $7,500 water-works improvement bonds. P. H. Rutherford, Supt.

Ohio, Canal Dover—City will sell $30,000 water bonds July 24. D. Ott, Supt. Noted Apr. 27.

Ohio, Celina—City sold $18,000 water-works improvement bonds. C. H. Grey, Pres. Bd. Control. Noted June 29.

Ohio, Cleveland Heights—(Warrensville post office)—Village receiving bids Aug. 7 for mains in Scarsborough Rd. and St. James Parkway. H. H. Canfield, Village Clk.

Ohio, Coshocton—Council passed ordinance to issue $25,000 water-works bonds. A. M. Fisher, Supt.

Ohio, Dover—City receiving bids July 24 for extending water-works. P. W. Hill, Dir. Pub. Ser. Noted Apr. 27.

Ohio, East Youngstown—Bd. Pub. Affairs receiving bids July July 21 for filter plant, pumping station, pumps, etc. Chester & Fleming, Pittsburgh, Engr. Noted June 22.

Ohio, Elyria—Council passed ordinance to issue $20,000 water-works bonds. J. M. Dougherty, Supt.

Ohio, Lowellville—City receiving bids July 15 for water-works. W. Wilson, Elks Bldg., Youngstown, Engr. G. W. Krall, Clk. Bd. Pub. Affairs.

Ohio, Medina—City receiving bids July 15 for rein.-con. dam at water-works. E. R. Root, Pres. Bd. Pub. Affairs. F. L. Rollins, Supt.

Ohio, New Philadelphia—City receiving bids July 24 for $80,000 water-works bonds. E. F. Wible, Audr.

Ohio, Shakers Heights—(Cleveland post office)—City receiving bids Aug. 1 for $269,098 water mains, sewers and paving bonds. C. A. Palmer, 3855 Coventry Rd., Clk.

Mich., Ford—Village voted $26,472 water-works bonds. Noted June 15.

Mich., Sparta—City making plans for pumping station. R. Rumsey, Engr.

Ill., Dixon—Bd. Administration, Springfield, receiving bids Aug. 1 for 2 pump houses, steel tank and steel tower and accessories, State Colony Epileptics. Frank D. Whipp, Fiscal Superv.

Ill., Virden—Fuller, Coult Co., 721 Olive St., St. Louis, Mo., receiving bids about Aug. 15 for water system, about $75,000. Noted Dec. 30.

Iowa, Boone—City plans to extend mains. K. C. Kastberg, Supt.

Iowa, Cedar Rapids—See item under "Sewers."

Iowa, Clermont—(Official)—Council receiving bids July 28 for water system. About $18,000. W. R. Blake, Mayor. Noted June 22.

Iowa, Essex—City election July 18 to vote on $10,000 water-works bonds.

Iowa, Ossian—Town receiving bids July 18 for water-works. A. R. Coffeen, Decorah, Engr. Noted June 15.

Minn., Argyle—See item under "Light, Heat and Power."

Kan., Greensburg—City plans to issue $30,000 water-works bonds.

Kan., Topeka—City making plans for concrete reservoir. A. R. Young, City Engr. Noted June 8.

Neb., Auburn—(Official)—City did not vote water-works bonds as stated in issue of June 29.

S. D., Montrose—City sold water-works bonds.

N. D., Garrison—City receives bids soon for water and sewer systems. P. R. Atkinson, Bismarck, Consult. Engr. R. W. Lumry, City Engr. Noted May 25.

Wyo., Lovell—City sold $60,000 water-works and sewer bonds.

Mont., Sheridan—City receiving bids Aug. 2 for water system. About $28,000. G. E. Baker, Whitehall, Engr. Noted July 6.

Mo., Chaffee—City receiving bids July 28 for water-works and sewer system. E. D. Preston, City Clk. F. L. Wilcox, Syndicate Trust Bldg., St. Louis, Engr. Noted June 22.

Mo., Glasgow—Bd. Pub. Wks. plans to improve water-works. R. F. Blacet, Supt.

Mo., Hamilton—City made preliminary plans for water-works. About $45,000. Noted Apr. 13.

Mo., Marceline—City plans to install filter plant. About $10,000. J. S. Chumley, Supt.

Mo., Paris—City making plans for filter plant. About $15,000. W. B. Rollins & Co., 439 Midland Bldg., Kansas City, Engr. G. B. Blakey, Supt. Noted June 29.

Tex., Dallas—City receives bids for new pipe and fittings. About $12,000. R. R. Nelins, Supt.

Tex., East Tawas—City plans new water-works. J. M. Dilworth, Supt.

Tex., Fredericksburg — City to improve water system.

Tex., Sherman—Citizens voted $30,000 water-works bonds. H. L. McDuffie, Supt. Noted Feb. 24

Tex., Vernon—City election July 20 to vote on $122,000 water-works bonds. A. J. Robinson, Supt. Noted June 1.

Okla., Cleveland—City election soon to vote on $50,000 water-works bonds.

Okla., Eufaula—City receiving bids July 24 for water-works improvements. M. Smith, City Engr. Noted June 29.

Okla., Miami—City election July 18 to vote on water and electric-light systems bonds. A. L. Sailors, Supt.

Okla., Poteau—City election July 29 to vote on $85,000 water-works bonds. Benham Engineering Co., Oklahoma, Consult. Engr.

Colo., Englewood—City plans water system.

Ore., Canby—(Official)—City receiving bids July 17 for water system. P. L. Hammond, Recdr. Noted June 15.

Calif., Hollywood—City sold $1,020,000 bonds for purchase and improvement of Union Hollywood Water Co. plant. Noted Feb. 3.

Que., Pointe aux Trembles—Council plans water system.

Ont., Hamilton—City plans 20-in. main to furnish water along Paradise Rd. About $10,000.

Ont., Windsor — Essex Border Pub. Utilities Comn. appointed Bd. of Engrs. to make plans for joint water and sewage systems for Windsor, Walkerville, East and West Sandwich, Ford and Ojibway. About $1,500,000 to $2,000,000. Citizens to vote on project.

Man., Brandon—City to install 4,000,000-gal. pump. A. W. Shaw, Supt.

Man., Winnipeg—City receiving bids July 18 for water-works valves. M. Peterson, Secy. Bd. Control.

Bids In and Contracts Awarded

N. J., Newark—Jaehnig & Peoples, $5,900, low bidder for water tower at Ivy Hill Almshouse. Noted June 22.

Penn., Wilkinsburg—Pennsylvania Water Co. let contract filtration plant to PITTSBURGH CONSTRUCTION CO., 1217 Fulton Bldg., Pittsburgh.

La., Oakdale—(Official)—City let contract water system to J. R. SUTHERLIN CO., Kansas City, Mo., $40,000. Noted June 15.

Ohio, East Liverpool—City let contract automatic filter control apparatus to PITTSBURGH FILTER MANUFACTURING CO., Pittsburgh.

Ohio, Greenwich—City let contract pump work for improving water system to McGOWAN PUMP CO., 52 Central Ave., Cincinnati. Noted June 15.

Ohio, Ironton—City let contract mains to SHERER, MOUNTAIN & GRIMES, $65,500.

Ohio, Lakewood—(Official)—City let contract water and sewer connections to G. GAUTOSE, $14,795.

Mich., Mt. Clemens—Bd. Water Comrs. let contract filter plant to PITTSBURGH FILTER MANUFACTURING CO., Pittsburgh. A. Keils, Supt.

Wis., Milwaukee—(East Milwaukee) — Village let contract water mains to G. E. ZIMMERMAN, 3702 McKinley Blvd., Milwaukee.

Iowa, Ankeny—(Official)—City let contract water system to DES MOINES BRIDGE AND IRON CO., Des Moines, $8,240. Noted June 22.

Minn., McKinley—City let contract water mains to BOYLAN & CO., Virginia, about $6,000. Noted Dec. 16.

Minn., St. Paul—City contract castings and small pipe connections for two 48x24-in. Venturi Meters to U. S. CAST IRON PIPE CO., J. D. CLOW CO. and COLDWELL, WILCOX CO. About $25,000. Noted May 11.

Neb., Dodge—City let contract well to A. E. SCHOLTE.

Mont., Malta—City let contract water and electric-light systems in Dodson Improvement District No. 1 to G. W. KEMPER, Minot, N. D., $34,665.

Tex., Corpus Christi—City to install settling basin by day labor. About $7,000.

Utah, Garland—(Official)—City let contracts water system; construction, GREEN ENGINEERING AND CONTRACTING CO., $10,394; pipe, BURTON-COTTON LUMBER CO., $10,488; pipe, valves, hydrants and fittings, D. C. DUNBAR, $2,282. Noted June 22.

Wash., Hoquiam—(Official)—Hoquiam Water Co. will build dam at Davis Creek by day labor. About $4,000. H. L. Heermans, Pres. and Mgr. Noted June 22.

Ore., Oregon City—(Official)—City let contract reservoir to LITHERLAND & ABREY CO., Beck Bldg., Portland, $29,522. Noted June 8.

N. S., Trenton—Town let contract mains to GAMMON & WEIR, New Glasgow, $8,150.

Que., St. Hyacinthe—Roberts Filter Manufacturing Co., Philadelphia, $81,000, low bidder for filter plant. Noted Apr. 27.

SEWERS

Proposed Work

N. Y., Kenmore—City making plans for storm water sewers in Myron Ave. About $20,000. White & Getman, Mutual Life Bldg., Buffalo, Engr.

N. Y., New York—(Borough of Manhattan)—Marcus M. Marks, Borough Pres., Room 2032, Municipal Bldg., receiving bids July 17, for sewer in portion West 134th St.

N. Y., New York—(Borough of Manhattan)—Marcus M. Marks, Borough Pres., Room 2032 Municipal Bldg., receiving bids July 18 for receiving basins altered and improved in portions Park, 6th, 3d, Madison Ave., 22d and Beekman St. and Bowery.

N. Y., Norwich—City receiving bids July 20 for sewers in Sheldon and Park St. J. C. Robinson, City Clk.

N. Y., Oxford—(Official)—Bd. of Mgrs., New York State Womens Relief Corps Home, receiving bids July 18 for sewage-disposal plant. G. Griffith, Pres. Bd. of Mgrs. (See adv. July 6 issue).

N. Y., Plattsburgh—City making plans for trunk sewer in Bridge St. About $6,000. H. Langlois, City Hall, Engr.

N. Y., Thiells—(Official)—F. A. Vanderli Pres. Bd. Mgrs., Letchworth Village, 7 Wall S New York, receiving bids July 20 for sewers laundry building. (See adv.)

Penn., Reading—City plans $200,000 bond iss for house sewer district No. 14 in northeaste section.

Penn., Waynesboro — City making plans sewer system. Gennett, Seayle & Fleming, Telegraph Bldg., Harrisburg, Engr.

Penn., Woodlawn—City making plans for stor sewers in Station St. W. M. Anderson, Engr.

Ga., Manchester—See item under "Water Works."

Ohio, Ironton—City making plans sanitary sewer in South 6th and Pine St. About $5,75 L. G. Howell, City Engr.

Ohio, Marietta—City receives bids about July 23 for sewer in 10th St. E. F. Gates, City Bldg. Engr.

Ohio, Salem—City made plans sewer in West Dry St. B. M. French, City Engr.

Ohio, Shaker Heights—(Cleveland post office)—See item under "Water-Works."

Ohio, Sidney—City plans to issue $19,700 sewer bonds. T. Blake, City Engr.

Ind., Goshen—City plans sewer in North 5th St. J. W. Haverly, Engr.

Ind., Muncie—City receiving bids July 15 for 2 sewers. J. R. Kelly, City Clk.

Mich., Ann Arbor—(Official)—Bd. Pub. Wks. receiving bids July 19 for storm and sanitary sewers, about $25,000. M. Osgood, City Engr.

Mich., Pontiac—City plans sewer in Wisner St.

Ill., Batavia—City making plans for sanitary and storm sewers. H. G. Wells, Coulter Bldg., Aurora, Engr.

Ill., Fairfield—Bd. of Local Impvts. receiving bids July 17 for sewers in Central Paving District. A. J. Poorman, Pres.

Ill., Springfield—City plans sewers in portion Jackson St. and Moffatt Ave. Wade Seeley, City Engr.

Ill., Springfield—City plans sewers in Sangamon St. About $6,660.

Ill., Wilmington—City will install sewer system, $75,000.

Wis., Kaukauna—City receiving bids July 22 for sewers in 10th and Crooks St. L. C. Wolf, City Clk. Noted Mar. 2.

Wis., Marinetta—City receiving bids July 18 for sewers.

Wis., Wausau—City making plans sanitary sewers in various streets. B. C. Gowan, Engr.

Iowa, Ames—City plans 17,000 ft. sanitary sewers. J. Q. Wickham, City Engr.

Iowa, Des Moines—City plans sanitary sewer in Chariton Ave. K. C. Kastberg, City Engr.

Iowa, Durant—City making plans for sewer system. D. G. Fisher & Co., 213 Whitaker Bldg., Davenport, Engr.

Iowa, Elkader—City making plans for sewers. Bids about July 26. M. Tschirgi & Son, 712 American Trust Bldg., Cedar Rapids, Engr.

Iowa, Ottumwa—City plans storm and sanitary sewers in North Green St. and Park Ave. John Brady, City Engr.

Iowa, Sioux City—Council passed resolution for sanitary sewer system and pumping plant in Palmer, Hedges and Cheneys Morningside Additions. T. H. Johnson, City Engr.

Iowa, Stuart—City receiving bids July 24 for 6,758 ft. 12-in., 8,195 ft. 10-in., 25,819 ft. 8-in., and 39.953 ft. 6-in. sewer pipe. G. F. Taylor, City Clk. T. S. DeLay, Creston, Consult. Engr. Noted Apr. 20.

Iowa, Wilton Junction—City making plans for sewer system. D. G. Fisher & Co., Whitaker Bldg., Davenport, Engr.

Minn., Breckenridge—City receiving bids July 17 for sewers. L. H. Standring, City Clk.

Minn., Madelia—City plans sewers in Fountain St.

Kan., Chanute—Council passed resolution for sewer from Beech to Chestnut St. G. N. Wood, City Engr.

Kan., Glasgo—City receiving bids July 21 for sanitary sewer outlet. Mary L. Byerly, Clk. School Dist. No. 5. O. E. Noble, Engr. Noted June 8.

Neb., Kearney—(Official)—City votes Aug. 15 on $50,000 sewer bonds, 2nd and 3rd wards. T. N. Hartzell, City Clk. Noted June 22.

Neb., Oxford—(Official)—City making preliminary plans for sewer system. About $12,000. A. Arnsberger, Clk. Grant & Fulton, Lincoln, Engr.

Neb., Wymore—City election Aug. 15 to vote on $16,500 sewer bonds. J. L. Hershey, Beatrice, Engr. Noted June 29.

Mont., Walkerville—City making plans sanitary sewer system. C. Feeney, Engr. Noted July 6.

Mo., Higginsville—City making plans for sewer system. Burns & McDonnell, 400 Interstate Bldg., Kansas City, Engr.

Mo., Joplin—City plans $15,000 sewer bonds. J. J. McAfee, City Engr.

Mo., Kirksville—City plans sanitary sewer, about $6,000. C. Downing, Court House, Engr.

Okla., Cordell — City soon votes on $25,000 sewer bonds.

Okla., Enid—Council passed ordinance sewers in Dist. 6 L. Bids soon. B. F. Lewis, City Engr.

Okla., Okemah—City soon votes on sewer bonds.

Okla., Wynne Wood—City plans sewer bond issue.

Calif., Folsom City—City plans $20,000 sewer bond isue.

Bids In and Contracts Awarded

Conn., Greenwich—(Official) — Joint Sewage Comn. received bids June 29 for sewage-disposal works and pumping station for Borough and Sewer District No. 6 from Suburban Engineering Co., 15 West 38th St., New York, $67,662; Averill-Mathews, 919 Essex Bldg., Newark, $71,-365; Carrington Construction Co., Jersey City, $77,651. Noted June 15.

N. Y., New York—(Borough of Brooklyn)—(Official)—Low bids received July 5 for sewers in portion Pacific St. and Troy Ave. from B. G. D. Co., $111,039; Rice & Galey, $114,807; Murphy Bros., $118,483. Noted June 29.

N. Y., New York—(Borough of Brooklyn)—(Official)—Low bids received July 5 for sewers in portion (a) Bay 29th St., (b) 76th St., (c) Beverly Rd., (d) sewer basins on Benson Ave. from Pasquali Tomasetti, 1133 60th St., (a) 89%; A. F. Koch, Inc., (b) 97.7%; E. Ghilardi Contracting Co., 1217 47th Ave., (b) 109%, (c) 114%; Murphy Bros., 25th and Cropsey Ave., (b) 111%, (c) 122%, (d) 132%; Frank L. Paino, (c) 119%; A. Paino, (a) 95%, (d) 135%; J. C. Schrade, (a) 105%, (d) 133%. Noted June 29.

N. Y., New York—(Borough of Manhattan)—(Official)—Borough let contracts receiving basins altered and improved in Grand and Delancey St. to WALTON CONTRACTING CO.; Broadway, CAPARINI & DEBLASIO; 125th St., MELROSE CONSTRUCTION CO. Noted June 22.

N. Y., Oneida—City let contract sewers, Willow and Fitch St., to A. L. NIXDORF, about $8,121. Noted June 29.

N. J., Plainfield—(Official)—City received low bids for sewage pumping station, pipe sewer, etc., from: Lang & Haslam Co., Ridgefield, $115,235; J. Ferry & Sons, Inc., Pulaski near Lafayette Ave., Baltimore, $119,113; J. F. Bush Co., 718 Monroe Ave., Plainfield, $124,202. Noted June 22.

Penn., Philadelphia—City let contract sewer in Oregon Ave. to G. N. YOUNG, 2316 South Broad St., $6,000.

Penn., Pittsburgh—(Brentwood)—City let contract sanitary and trunk sewer from Dist. No. 1 along Brentwood and Cowan Rd. to proposed disposal plant to F. GEORGE, 7121 Jenkins Arcade.

Penn., Williamsport—City let contract sewer, High St., to J. McCADDEN.

Ohio, Euclid—City let contract sewers to GOULD & MAYBACH, 823 East 150th St., Cleveland. Noted June 1.

Ohio, Lakewood—See item under "Water-Works."

Ind., Michigan City—City let contract sewers to AUGUST SCHNEIDER. Noted June 8.

Mich., Crosse Pointe—City let contract sewer in Notre Dame Ave. to C. CRONIN. Noted Mar. 23.

Mich., Lansing—City let contract sewers in Maryland, Congress St., etc., to FISHER & NOYCE, $8,700.

Mich., St. Clair Heights—City let contract sewers to A. ROHRIG. Noted Feb. 3.

Ill., East St. Louis—City let contract sewer in Bowman Ave. to KEELY BROS., $38,900. Noted Oct. 21.

Ill., Elmhurst—City let contract sewers to J. M. BAKER, Maywood. Noted Jan. 13.

Ill., Rockford—City let contract sewer to G. W. MULHOLLAND. Noted Mar. 2.

Wis., Elkhart Lake—City let contract sewers to R. P. KUEHN, Aurora, Ill., $14,107. Noted Apr. 13.

Wis., Manitowoc—City let contract storm sewers to GRAY-ROBINSON CO.

Wis., Oconto—City let contract sanitary and storm sewers to YOUNG BROS.

Iowa, Cedar Rapids—Park Side Realty Co. let contract sewer system and water mains in Beaver Woods Addition to W. A. EDGAR, care Anderson Land Co., Masonic Temple Bldg., about $20,000. Noted Apr. 20.

Minn., Thief River Falls—(Official)—City let contract sewers to ROBINSON-VANALSTINE CO., Grand Forks, N. D., $8,024. Noted June 29.

Minn., Windom—City let contract sewers to REDDING & SMAAGE.

Neb., Aurora—City let contract sewers in 11th St to J. H. VAN WORMER, Aurora, $4,998. Noted June 15.

Neb., Omaha—City let contract storm sewer in Minnie Lusa Addition to J. J. HANNIGHEN CO., Omaha, $57,000.

N. D., Jamestown—City let contract sewage-disposal plant and septic tank to W. DANFORTH, 411 Hackney Bldg., St. Paul, $68,500.

Tex., Clarksville—City let contract improving sewage disposal plant to E. D. RUMSDEN, Sherman, $4,061. Noted Apr. 6.

Calif., Reedley — City let contract improving sewer system to O. FREDERICKSON, Fresno, $6,428.

Calif., Stockton—City let contract sewer on Fair Oaks Ave., East, Oak and West St. to F. C. McINTYRE, 215 East Weber St., $49,450.

GARBAGE

Proposed Work

N. J., Belleville—(Official)—Com. Pub. Bldg. Bd. Chosen Freeholders Essex County, Court House, Newark, receiving bids July 19 for incinerator plant at Essex County Hospital for Contagious Diseases. A. L. Lacombe, Chn.

Iowa, Madrid—R. T. Jones plans garbage incinerator plant. About $12,000. A. C. Frisk, 1249 East 14th St., Des Moines, Arch.

Okla., Tulsa—City plans garbage incinerator. E. C. Hughes, City Engr.

STREETS AND ROADS

Proposed Work

Maine, Augusta—State Highway Comn. receiving bids July 19 for state highway improvement. Paul D. Sargent, Augusta, Ch. Engr.

Mass., Springfield—Bd. Aldermen voted $96,-000 bonds paving portion South St. F. H. Clark, City Engr.

N. Y., New York—(Borough of Bronx)—Douglas Mathewson, Borough Pres., Municipal Bldg., Crotona Park, receiving bids July 18 for paving portion Jerome Ave., sheet asphalt and granite block.

N. Y., New York—(Borough of Brooklyn)—L. H. Pounds, Borough Pres., Room 2, Borough Hall, receiving bids July 19 for improving various streets.

N. Y., New York—(Borough of Manhattan)—Marcus M. Marks, Borough Pres., Room 2032 Municipal Bldg., receiving bids July 17 for repaving portions Beekman, Grand, 22d, 25th, Lafayette, 49th, 63d and Delancey St.

N. Y., New York—(Borough of Queens)—Maurice E. Connolly, Borough Pres., 3d Floor, Borough Hall, Jackson Ave. and 5th St., Long Island City, receiving bids July 19 for improving portion Putnam, Thomson and Van Alst Ave., Meadow, John and 88th St.

N. Y., New York—(Borough of Richmond)—(Official)—Calvin D. Van Name, Borough Pres., Borough Hall, St. George, New Brighton, receiving bids July 20, for repaving portion Bennett St., brick.

N. Y., New York—(Borough of Richmond)—Calvin D. Van Name, Borough Pres., Borough Hall, St. George, New Brighton, receiving bids July 21, for repaving portion south wing Richmond Terrace, bituminous concrete.

N. J., Bayonne—City made plans for improving 29th St. W. L. Clarkson, City Engr.

N. J., Bound Brook—(Official)—Mayor and Council receiving bids July 18 for paving certain streets, brick and granite block. F. A. Dunham-Clarin Co., 109 Park Ave., Plainfield, Engr.-in-Charge. (See adv.)

N. J., Chesterfield—Council sold $12,000 road bonds.

N. J., Collingswood—Citizens defeated $140,000 paving bonds. Noted May 25.

N. J., Elizabeth—Union County to spend $53,537 for paving. Address County Clerk, Elizabeth.

N. J., Hoboken—City Comrs. sold $65,000 paving bonds. J. O. Whitmore, City Engr.

N. J., Newark—Bd. St. and Water Comrs receiving bids July 20 for improving Amsterdam, Frankfort and North 11th St. M. R. Sherrard, City Engr.

N. J., Rutherford—City rejected bids for macadamizing portion East Pierrepont Ave. and The Terrace. New bids. R. M. Watson, City Engr.

Penn., Bradford—(Official)—City receiving bids July 17 for paving portion Kendall and Bagley Ave. and Clarence St., vitrified brick. About $23,000. B. A. Wise, City Engr.

Penn., Du Bois—City lets contract about Aug. 1 for paving North Brady and Long Ave., brick, about $20,000. R. V. Bloom, City Clk.

Penn., Lock Haven—City plans to repave portion Henderson and East Main St., vitrified brick.

Penn., Pittsburgh—Council passed ordinance to improve portion Riverview Ave. About $17,-200. R. Swan, City Engr.

Penn., Washington—County receiving bids July 24 for resurfacing with concrete Zollarsville Rd. T. J. Underwood, Washington, Controller.

Penn., Windber—(Official)—City receiving bids July 20 for paving about 5,700 sq.yd., vitrified blocks. W. J. Vickroy, City Engr. Noted June 15.

Md., Baltimore—State Roads Commission plans to pave Liberty Heights Ave. Frank H. Zouck, Chn.

Md., Baltimore—City plans to pave portion Lexington Ave. and Hull St. R. M. Cooksey, City Engr.

W. Va., Bluefield—(Official)—Council receiving bids July 24 for paving about 15,000 sq.yd. bituminous macadam, 1,400 lin.ft. curb and gutter, 1,600 sq.yd. concrete pavement. H. O. Wiles, City Engr. (See adv. July 6 issue.)

W. Va., Burnsville—City receiving bids July 18 for 1-mi. brick paving. D. D. Britt, Empire Bldg., Clarksburg, Engr. Noted June 8.

W. Va., Wellsburg—Brooke County voted $800,-000 road bonds. G. C. Wells, Wellsburg, Comr. Noted May 25.

N. C., Greenville—Pitt County election Aug. 15 to vote on $50,000 road bonds. Address County Clerk, Greenville. Noted June 22.

N. C., Monroe—City plans paving.

Ga., Atlanta—Council passed ordinance for paving Peachtree St. H. V. Hurt, City Engr.

Ga., Washington—Citizens defeated paving bonds.

Fla., Ocala—Marion County plans $950,000 road-bond issue. Address County Clerk, Ocala.

Ala., Ashville—St. Clair County receiving bids Aug. 2 for improving portion Ashville and Springville Rd. W. S. Keller, Montgomery, State Highway Engr.

Ala., Birmingham—Bd. Revenue Jefferson County receiving bids Aug. 14 for road from Birmingham to Warrior River, about 14 mi. G. H. Clark, Birmingham, County Engr. (See adv.)

Ala., Evergreen—Conecuh County receiving bids Aug. 1 for improving portion Evergreen-Castleberry Rd. I. B. Rutledge, Evergreen, Rd. Superv.

La., Lake Charles—City receiving bids July 27 for paving portion Lawrence St., brick. E. L. Gorham, City Engr.

Tenn., Savannah—(Official)—Hardin County receives bids for grading and graveling roads. A. A. Watson, Savannah, County Judge. Noted June 22.

Ky., Albany—(Official)—Clinton County Fiscal Court receiving bids July 22 for 11½ mi. pike roads. J. G. Sloan, Albany, Clk. Noted June 29.

Ky., Campbellsville—Franklin County plans 2 mi. road. Address County Clerk, Campbellsville.

Ky., Flemingsburg—Fleming County defeated $150,000 road bonds. Noted May 18.

Ky., Hopkinsville—(Official)—Christian County receiving bids July 18 for 85 mi. road work. About $150,000. C. Folsom, Hopkinsville, Rd. Engr. Noted June 8.

Ky., Wickliffe—(Official)—Ballard County receiving bids July 17 for road improvement. R. Wiley, Frankfort, Comr. Pub. Rd.

Ohio, Cleveland—Cuyahoga County receiving bids July 22 for improving portion Richmond Rd. No. 4. E. G. Krause, Cleveland, Clk.

Ohio, Dillonvale—Council receiving bids Aug. 1 for paving portion 2d St. and North Railroad Alley. Martin Camfield, Clk.

Ohio, Euclid—Village receiving bids Aug. 14 for $5,000 road bonds. H. S. Dunlop, Clk.

Ohio, Forest—Council sold $10,000 streets improvement bonds.

Ohio, Greenville—Council pased ordinance to improve Spring St. and Meeker Ave.

Ohio, Kent—Village will sell $11,000 paving bonds July 22. F. Bechtle, Clk.

Ohio, Marion—City receiving bids July 18 for sidewalks on various streets. H. A. Stevens, Clk., Bd. Pub. Ser.

Ohio, Mt. Gilead—City receiving bids July 19 for paving Cherry and Union St. H. C. Little, Mayor. Noted June 8.

Ohio, Mt. Gilead—Council passed resolution to pave East High and East Marion St. H. C. Little, Mayor.

Ohio, Mt. Gilead—County receiving bids July 21 for improving Sexton-Thacher and Beech-Grove Rd. C. F. Clements, Mt. Gilead, Engr.

Ohio, New Washington—Village sold $23,813 street bonds.

Ohio, Shaker Heights—(Cleveland post office)—See item under "Water-Works."

Ohio, Toledo—City received estimate for paving Broadway and Waite Ave. at $42,220; Kingsbury St., $4,412. G. Champe, 610 Nasby Bldg., Engr.

Ohio, Toledo—(Official)—City receiving bids July 25 for paving and repaving 20 streets and alleys. About $230,000. D. H. Goodwillie, Dir. Pub. Ser.

Ohio, Wapakoneta—City lets contract curbing, guttering and paving Middle and West Auglaize St. about Aug. About $35,000. H. C. Wintz, Dir. Pub. Ser.

Ohio, Wauseon—(Official)—Fulton County sold $75,000 road bonds. C. O. Castle, County Engr. Noted June 22.

Ohio, West Park—Village receiving bids July 24 for paving portion Barthelman Ave. and sidewalks on West Park Blvd., Riverside Dr. and Warren-Triskett Rd. Lander Engineering Co., American Trust Bldg., Cleveland, Engr. Fred Feuchter, Village Clk.

Ohio, Youngstown—(Official)—City receiving bids July 21 for improving Wirt, Park, Adams and Harrison St. F. M. Lillie, City Engr. Noted May 4.

Ohio, Youngstown — (Official) — City receiving bids July 21 for paving Calvin St. F. M. Lillie, City Engr. Noted Apr. 20.

Ohio, Zanesville—Muskingum County will sell $44,000 paving bonds July 27. C. W. Tanner, Zanesville, County Audr. R. Strait, Engr.

Ind., Beech Grove—Bd. Trustees receiving bids July 18 for improving 6th Ave. Frank Baker, Town Clk.

Ind., Brownstown—Jackson County receiving bids Aug. 7 for macadam road in Vernon Township. A. Luedtke, Brownstown, Audr.

Ind., Columbia City—Whitley County receiving bids Aug. 9 for roads in Jefferson Township. T. A. McLaughlin, Columbia City, Audr.

Ind., Columbus—Bartholomew County receiving bids Aug. 3 for gravel road in Flatrock Township. W. H. Scott, Columbus, Audr.

Ind., Gary—City receiving bids Aug. 1 for paving Virginia St. W. J. Fulton, City Engr.

Ind., Greenfield—Hancock County receiving bids July 29 for macadam and brick road in Vernon Township. H. J. Rhue, Greenfield, Audr.

Ind., Greensburg—Decatur County receiving bids Aug. 7 for road in Washington Township. J. C. Barbe, Greensburg, Audr.

Ind., Indianapolis—Marion County receiving bids July 28 for gravel road in Pike Township. Leo K. Fesler, Indianapolis, Audr.

Ind., Indianapolis—Marion County receiving bids July 28 for gravel roads in Center Township. Leo K. Fesler, Indianapolis, Audr.

Ind., Indianapolis—Bd. Pub. Wks. receiving bids July 28 for curbing and paving portion Pennsylvania, Ruckle, Shriver and Tacoma St. B. J. T. Jeup, City Engr.

Ind., Indianapolis—Bd. Pub. Wks. receiving bids July 26 for improving portion Harlan St. B. J. T. Jeup, City Engr.

Ind., Jeffersonville—Clark County receiving bids Aug. 7 for road in Silver Creek Township. G. W. Stoner, Jeffersonville, Audr.

Ind., Lebanon—Boone County receiving bids Aug. 8 for road in Eagle Township. C. Goodwin, Lebanon, Audr.

Ind., Muncie—Delaware County receiving bids July 29 for macadamizing roads in Center and Liberty Townships. F. M. Williams, Muncie, Audr.

Ind., Newport—Vermilion County receiving bids Aug. 7 for gravel road in Clinton Township. R. Slater, Newport, Audr.

Ind., Valparaiso—Porter County receiving bids Aug. 8 for gravel roads in Portage and Liberty Townships. C. A. Blachley, Valparaiso, Audr.

Mich., Lansing—Citizens voted $71,000 paving bonds, streets include Larch, Baker, Kalamazoo, Walnut and Bingham St. and Michigan Ave. H. W. Sparks, City Engr. Noted June 22.

Mich., Marshall—Calhoun County election Nov. 7 to vote on $800,000 road bonds. Address County Clerk, Marshall.

Mich., Newberry—Luce County plans 8 mi. macadam road. Address County Clerk, Newberry.

Mich., Spring Lake—(Official)—Village rejected bids paving State St. New bids. W. D. Spencer, Village Clk. Noted June 29.

Ill., Carmi—White County plans 10 mi. gravel road. M. Martin, Carmi, County Clk.

Ill., Champaign—Council plans paving East Park Ave. and 3d St. About $25,874. F. C. Lohman, Engr.

Ill., Galesburg—Knox County plans $1,000,000 road bonds. H. M. Butt, County Engr.

Ill., Rantoul—City plans to pave Chandler St.

Ill., Rock Island—City Commission voted to pave portion Railroad Ave., brick, about $23,476. W. Treichler, City Engr.

Ill., Springfield—City rejeted bids paving portion 2nd St. New bids. W. D. Seeley, City Engr.

Wis., Fond du Lac—Bd. Pub. Wks. receiving bids July 20 for paving Scott St. J. S. McCullough, City Engr.

Wis., La Crosse—Bd. Pub. Wks. receiving bids July 21 for paving several streets.

Iowa, Burlington—City plans paving 9th St. H. G. Vollmer, City Engr.

Kan., Larned—Council passed resolution to pave portion Kansas and Santa Fe St. L. D. Burgess, City Clk.

Kan., Newton—Council passed resolution to pave portion Ash St. F. E. Devlin, City Engr.

Kan., Olathe—Johnson County receiving bids July 29 for macadamizing portion Abbott Rd. W. J. Moore, Olathe, County Clk. G. Pike, County Engr.

Mont., Missoula—(Official)—City receiving bids July 18 for 11,700 sq.yd. paving in Special Improvement District No. 42. R. E. Kellogg, City Clk., E. S. Hathaway, City Engr.

Mo., Higginsville—Council passed resolution to pave portion Washburn St., brick. R. Huscher, Clk.

Mo., Jefferson City—Cole County election soon to vote on $300,000 road bonds. Address County Clk., Jefferson City.

Mo., Joplin—City making plans for paving portion McKinley and Highland Ave. J. J. McAfee, City Engr.

Mo., Maryville—Nodaway County, Washington Township, voted $25,000 road bonds. Address County Clerk, Maryville.

Mo., Richmond—Council passed resolution to pave portion East Main St., brick.

Mo., Salem—Dent County election June 15 to vote on $160,000 road bonds. J. H. McDonald, Salem, Clk.

Mo., Sedalia—Council passed resolution to pave portion 4th St. F. T. Leaming, City Engr.

Mo., Sedalia—(Official)—City receiving bids July 17 for 2,000 sq.yd. concrete pavement and 1,500 ft. storm sewer. About $4,000. F. T. Leaming, City Engr. Noted June 22.

Mo., Springfield—City making plans for paving portion Harrison St. O. D. Chrisman, City Engr.

Ark., Helena—Phillips County Rd. Improvement District No. 1 receives bids about Aug. 1 for 2 mi. concrete roadway. About $24,000. W. E. Winn, Helena, Engr.

Ark., Texarkana—(Official)—Property owners to lay sidewalks on Broad, Pine and Vine St. Noted June 29.

Tex., Beeville—Citizens petitioned Bee County for election to vote $300,000 road bonds. Address County Clerk, Beeville.

Tex., Dallas—City plans paving portion Sunset Ave. H. Moseley, City Engr.

Tex., Dallas—City plans to pave portion Beckley Ave., about $100,000. H. Moseley, City Engr.

Tex., Greenville—Hunt County election July 19 to vote on $1,400,000 road bonds. H. O. Norwood, Greenville, Judge. Noted Apr. 6.

Tex., Hillsboro—City election July 29 to vote on $10,000 street improvement bonds. F. C. Metzger, City Engr.

Tex., Sherman—Citizens voted $50,000 street-improvement bonds. O. J. Ellingsson, City Engr. Noted June 15.

Tex., Stratford—Sherman County to grade 8 mi. and repair several roads. Address County Clerk, Stratford.

Okla., Mangum—Greer County election Aug. 1 to vote on $200,000 road bonds. Address County Clerk, Mangum.

Okla., Sallisaw—Sequoyah County, Vian District, voted $24,000 road bonds. Address County Clerk, Sallisaw. Noted May 25.

Idaho, Boise—City voted $30,000 bonds for paving Harrison, 8th, 16th, Jefferson St. and Harrison Blvd. C. C. Stevens, City Engr. Noted May 11.

Idaho, Lapwai—Citizens defeated $150,000 highway bonds.

Idaho, Rexburg—See item under "Bridges."

Utah, Salt Lake City—(Official)—City receiving bids about Aug. 20 for concrete highway from 2nd West St. to Davis County line. About $38,000. S. Q. Cannon, City Engr. Noted May 25.

Wash., Camas—City making plans paving, curbing and sidewalks on various streets. C. E. Farr, City Clk.

Wash., Olympia—State Highway Comn. receiving bids July 24 for gravel surfacing 1.3 mi. Pacific Highway.

Wash., Port Townsend—Jefferson County to spend $12,000 for road to Leland Valley. Address County Clerk, Port Townsend.

Wash., Spokane—County Comrs. passed resolution for 2 mi. paved highway on Green Bluff Prairie, about $10,000. J. W. Strack, County Engr.

Ore., Salem—City plans to pave South Church St., concrete. W. Skelton, City Engr.

Calif., Eureka—Humboldt County election Aug. 29 to vote on $1,500,000 road bonds. Address County Clerk, Eureka. Noted June 22.

Calif., Exeter—City making plans for 300,000 sq.ft. concrete pavement. H. D. Watts, City Engr.

Calif., Lindsay—City plans 90,000 sq.yd. concrete pavement. H. D. Watts, City Engr.

Calif., South Pasadena—City making plans for paving Fremont Ave., concrete. G. E. Hill, City Engr.

Calif., South Pasadena—City plans election to vote on $50,000 paving bonds.

Que., Montreal—Council voted $33,000 bonds for paving St. Lawrence St. and $36,000 repaving St. Catherine and Dorchester St. P. E. Mercier, City Engr.

Ont., Hamilton—T. Allison, Rd Supt Wentworth County, estimates cost rebuilding Binbrook Rd. at $13,000.

Bids In and Contracts Awarded

Mass., Adams—City let contract paving Summer St. to D. S. McGRATH, Adams.

Mass., Dedham—City let contract improving portion Ames St. to SULLIVAN & McGRONE, Somerville.

Mass., Lowell—(Official)—City to widen School St. by day labor. About $7,000. Noted June 29.

Conn., Bristol—(Official)—City let contract paving Main St. to BARBARA & D'AURIOLA, 63 Bank St., Waterbury, $3.85 sq.yd. Noted June 29.

Conn., Torrington—(Official)—City let contract improving Main St. to RHODE ISLAND CONSTRUCTION CO. Noted June 29.

N. Y., Albany—(Official)—Low bids received July 10 by Edwin Duffey, State Highway Comr., Albany, for constructing and repairing highways from: Road No. 948-A, Voorheesville-New Salem, Albany County, 0.17 mi.—Burham & Rose, Albany, $2,212; C. S. Mathusa, Albany, $2,3[illegible]2. Road No. 1371, Watervliet-Cohoes, Albany County, 0 88 mi.—Sewage Disposal and Water Plant Co., Schenectady, $26,562; A. Hisler & L. J. Devlin, Albany, $26,878; Fallkill Construction Co., Poughkeepsie, $27,311. Road No. 5607, Franklinville-Machias, Cattaraugus County, 4.73 mi.—No bids received. Road No. 5610, Montezuma-Port Byron, Cayuga County, 4.39 mi.—Sullivan Construction Co., Syracuse, $66,365; Guy B. Dickison, Syracuse, $74,630. Road No. 1027, French Creek-Findley Lake, Chautauqua County, 4.33 mi.—Town of Mina, Findley Lake, $61,472; Elmer M. Love & Son, Corry, Penn., $65,072; J. A. Hughes & Co., Jamestown, $70,583. Road No. 1378, Elmira-North Elmira, Chemung County, 4.14 mi.—Peter F. Connolly Co., Horseheads, $99,195; Bradley & McGreevey, Elmira, $102,239; Sullivan Construction Co., Syracuse, $102,626. Road No. 1394, Norwich-South New Berlin, Part 2, Chenango County, South New Berlin-New Berlin, Part 1, 7.09 mi.—Paddelford & King, Sherburne, $90,429; E. P. Abrogast, Stroudsburg, Penn., $92,219; Newport Construction Co., Newport, $96,945. Road No. 1398, Moffitsville-Franklin County Line, Clinton County, 10.46 mi.—Richard Hopkins, Troy, $111,888. Road No. 1412, Wappinger Falls Village, South Ave., Dutchess County, 0.56 mi.—Fallkill Construction Co., Poughkeepsie, $8,071; Joseph Heisler & Frabl Gullotte, Schenectady, $8,116. Road No. 1410, Westport Village, Main St., Essex County, 1.76 mi.—Bluff Point Stone Co., Plattsburgh, $24,163. Road No. 620, Ephratah-Kecks Center, Part 1, Fulton County, 5 13 mi.—Brady-Oltarsch Co., Inc., New York, $49,044; Easton Construction Co., Inc, Utica, $65,987. Road No. 1365, Greenville-Coxsackie, Part 1, Greene County, 2.39 mi—George H. McEvoy, Creek Locks, $26,620; Joseph Walker Construction Co., Albany, $28,266; Albany Construction Co., Albany, $30,520. Road No. 1546, Frankfort-Gulph, Herkimer County, 5.10 mi.—Dale Eng. Co., Utica, $66,449; C. W. Tryon, Poland, $66,997; Albany Construction Co, Albany, $69,604. Road No. 1360, Munnsville-Pratts Hollow-Pine Woods, Madison County, 6 54 mi—C W. Tryon, Poland, $64,672. Road No. 1390, Chili-Coldwater, Monroe County, 2 92 mi.—Roco Co., Inc, Rochester, $36,955; Thomas Grady, Rochester, $39,939; Peter F. Connolly, Horseheads, $41,766. Road No. 1342, Roslyn-Port Washington, Nassau County, 5 24 mi—Thomas O'Hern Co., Yonkers, $84,480; Rosenthal Contracting Co., Inc, Brooklyn, $90,556; Ulrich Persicano, Brooklyn, $91,727. Road No. 1355, North Western-Boonville, Part 1, Oneida County, 5.24 mi—Albany Construction Co., Albany, $76,252. Road No. 1408, Three Mile Point-Springfield Center-Warren, Otsego County, 8.13 mi.—D. I. Snell & Co., Canajoharie, $88,569; J. L. Richmond, Hinkley, $99,366; Albany Construction Co., Albany, $94,763. Road No. 1117, Rexford Flats-Wait Corners-Groom Corners, Saratoga County, 6 10 mi.—W. G. Fox, Saratoga, $79,254; Albany Construction Co., Albany, $79,317; John B. Dower Construction Co., Ballston Spa, $88,900. Road No. 1406, Marion-Williamson, Part 2, Wayne County, 3 67 mi.—Hendrickson-McCabe Construction Co., Syracuse, $35,000; Thomas Grady, Rochester, $36,953; Dale Engineering Co., Utica, $35,959. Road No. 1370, Harts Corner-White Plains, Westchester County, 1 74 mi.—Harlem Contracting Co., New York, $50,959; Brady-Oltarsch Construction Co., New York, $50,971. Repair Contract No. 992, Erie County, 9.143 mi.—No bids. Repair Contract No. 945, Fulton County, 0.59 mi.—Burnham & Rose, Albany, $3,814; Clarence E. Welsh & Co., Gloversville, $3,837; John P. Dugan Co., Inc., Amsterdam, $3,842. Repair Contract No. 845, Nassau County, 2.50 mi.—No bids. Repair Contract No. 947, St. Lawrence County, 2.50 mi.—Richard Hopkins, Troy, $11,995; Herbert W. Fearl, Potsdam, $12,009. Repair Contract No. 985, Ulster County, 0.83 mi.—Joseph Walker Construction Co., Albany, $5,659; Bohl & Goetz, Albany, $5,680; George F. McEvoy, Creek Locks, $5,769.

N. Y., Albany—(Official)—State Highway Commission let contracts highways in various counties to: Repair Contract No. 974, Albany County, 1.06 mi.: SEWAGE DISPOSAL AND WATER PLANT CO., Schenectady, $18,548. Repair Contract No. 980, Albany County, 3.91 mi.: GREECE CONSTRUCTION CO., Rochester, $18,978. Repair Contract No. 964, Cayuga County, 2.76 mi.: W. F. HILL & CO., Fulton, N. Y., $17,305. Repair Contract No. 982, Cayuga County, 3.29 mi., FLOOD & VAN WIRT CO., Hudson Falls, $19,458. Repair Contract No. 962, Cortland County, 7.11 mi.: CHARLES E. HANEY, Camillus, $29,241. Repair Contract No. 963, Cortland County, 2.70 mi.: HOWLAND E. WRIGHT, Cortland, $12,672. Repair Contract No. 970, Herkimer County, 9.91 mi.: PHELAN & SULLIVAN, Utica, $49,086. Repair Contract No. 960, Livingston County, 0.57 mi.: SCHROEDER-HICKS CONTRACTING CO., Rochester, $4.804. Repair Contract No. 978, Livingston County, 4.66 mi.: H. A. MURPHY, Albany, $10,099. Repair Contract No. 967, Niagara County, 3.19 mi.: CHARLES E. HANEY, Camillus, $16,159. Repair Contract No. 975, Oneida County, 4.74 mi.: HARRY W. ROBERTS

& CO., Utica, $35,966. Repair Contract No. 968, Onondaga County, 0.88 mi.: DANA W. ROBBINS, INC., New York, $8,350. REPAIR CONTRACT No. 965, Onondaga County, 3.70 mi.: JOHN R. BURCHILL, Syracuse, $16,753. Repair Contract No. 966, Onondaga County, 3.30 mi.: CHARLES E. HANEY, Camillus, $13,102. Repair Contract No. 961, Onondaga County, 6.24 mi.: JOHN R. BURCHILL, Syracuse, $9,308. Repair Contract No. 979, Onondaga County, 0.60 mi.: MONDO CONSTRUCTION CO., INC., Syracuse, $15,952. Repair Contract No. 976, Onondaga County, 4.84 mi.: HARRY W. ROBERTS & CO., Utica, $38,267. Repair Contract No. 870, Rensselaer County, 4.34 mi.: JOHN B. DOWER, Ballston Spa., $33,665. Repair Contract No. 981, Rensselaer County, 3.11 mi.: GIFFORD CONSTRUCTION CO., Jamaica, $12,845. Repair Contract No. 977, Sullivan County, 2.65 mi.: JACKSON BROS., Cuddebackville, $14,963. And also for the following broken stone contract No. 70, Essex County: JOHN ANDERSON, JR., Newcomb, $10,320.

Proposals were received by the State Highway Commission at its office, No. 55 Lancaster St., Albany, N. Y., on Monday, the 26th day of June, 1916, for the improvement of public highways by State Aid: Road No. 1302, Morris-Oneonta, Otsego County, 12.66 mi.: FRANK D. VAN HORN, New York, $116,754. Road No. 976, Java Village: Wales, 3.52 mi.: BISON CITY ENGINEERING AND CONTRACTING CO., Buffalo, $30,347. Noted July 6.

N. Y., Albany—City let contract repaving portion Lark St. to CRAMOND CONSTRUCTION CORPORATION, $37,647; Broadway, W. E. CAMPION, 223 North Pearl St., $19,029.

N. Y., Albion—City let contract paving G. B. GIBBONS & CO., 40 Wall St., New York, Main St., 85,000, East Bank St., $10,400. Noted July 6.

N. Y., Dolgeville—Village let contract improving Faville Ave. to NASH & GRIFFIN, Norwich, $21,799. Noted June 8.

N. Y., New York—(Borough of Brooklyn)—(Official)—Borough received low bids for improving and laying sidewalks, portions (a) Bay 38th St., (b) West 1st St., (c) 4th Ave., (d) 59th St., (e) East 14th St., (f) 20th Ave., (g) East 17th St., (h) Stillwell Ave., (i) West 27th St., (j) 120,000 gal. refined asphalt, liquid form, from: Robertson Construction Co., 61st St., (a) $8,705; Cranford Co., 52 9th St., (b) $4,655, (c) $5,915, (d) $5,611, (f) $21,895, (i) $6,475; Sicilian Asphalt Paving Co., (e) $39,960, (g) $10,088; Louis Grenato, (h) $8,573; (j) Standard Oil Co., 26 Broadway, $0.0725. Noted June 29.

N. Y., New York—(Borough of Manhattan)—(Official)—Borough received lowest bids for improving portion (a) Lexington Ave., (b) Center St., (c) Grand St., (d) 3d Ave., from Aztec Asphalt Co., 90 West St., (a) $15,540; W. J. Fitzgerald, 547 West 45th St., (b) $12,866, (c) $6,225; Asphalt Construction Co., Madison Ave. and 137th St., (d) $171,850. Noted June 22.

N. Y., Syracuse—City received lowest bids paving Lakeview Ave. from G. B. Dickison, brick or block, $52,464, bituminous macadam, $40,277, concrete, $40,438, asphalt, $47,654, modified Topeka, $44,447. Noted May 18.

N. Y., Troy—City let contract repaving Remsen St. to LANGAN CONSTRUCTION CO., Albany, $24,263.

N. Y., Yonkers—City let contract improving Hyatt Ave. and 1st St. to J. A. KELLOCK, Saunders Dike, $25,718.

N. J., Bloomfield—Essex County let contract paving Broad St. to GLENFIELD CONSTRUCTION CO., 141 South 8th St., Newark, $66,100. Noted June 22 under Newark.

N. J., Kearney—City let contract paving portion Kearney Ave. to STANDARD BITULITHIC CO., $31,070. Noted June 15.

N. J., Millburn—Essex County let contract paving Springfield Ave. to FRANKLIN CONTRACTING CO., $22,797.

N. J., Newark—Essex County let contract paving Morris Turnpike to BAMBERGER & CHAPMAN CO., $37,201.

N. J., Paterson—Bd. Chosen Freeholders let contracts paving to A. W. GILL, Hackensack, Cannon Ball Rd., $6,673, Haledon Ave., $7,233, Totowa Ave. and East 61st St., $12,724 and $4,490; UNION BUILDING AND CONSTRUCTION CO., Passaic, Bloomfield Ave., $20,488, Van Houten Ave., $38,646; G. F. BRACKETT, Madison Ave., $49,977; E. C. HUMPHREY CO., Hackensack, Vreeland Ave., $25,229; HARROP & SAUERBUTT, Gareld, Wesel Rd., $19,045.

N. J., Princeton—(Official)—City let contract paving Nassau St. to HARLEM CONTRACTING CO., 2 Rector St., New York. Noted June 29.

N. J., South Orange—Essex County let contract paving Springfield Ave. GLENFIELD CONSTRUCTION CO., 141 South 8th St., Newark, $40,582. Noted June 22 under Newark.

Penn., Ebensburg—(Official)—Cambria County let contract 2 mi. Cresson Pike, Cambria Township, and 690,000 fire-clay brick to BENNETT & SHEARER, Indiana, $43,416. Noted June 15.

Penn., Glassport—City let contract 10,000 sq.yd. paving to J. B. SWEENY, 703 East Park Way, McKeesport.

Penn., Sewickley—City let contract paving portion Fountain, Elizabeth and Grimes St. and Locust Pl. to R. V. BALDWIN, Coraopolis, $8,500. Noted May 25.

Md., Baltimore—State Roads Commission let contracts roads: D. M. ANDREW CONTRACTING CO., 600 Equitable Bldg., York Rd., $29,196; LUCK CONSTRUCTION CO., Roanoke, Mt. Zion-Hills Bridge Rd., $44,081; MAJOR CONSTRUCTION CO., Millington, 3.26 mi. road from Pocomoke City, $44,360. Noted June 22.

Md., Cumberland—County received bids paving from Brotemarkle & Uhl, Barton-Pekin Rd., $36,935 concrete, $29,463 macadam; S. T. Brotemarkle, Williams Rd., $11,972 concrete, $10,025 macadam.

Md., North East—City let contract road from Bay View to Farmington to W. H. HOHN.

Md., Towson—Baltimore County let contract road work to J. FREDERICK, York Pike, $24,303.

Va., Lynchburg—(Official)—Campbell County let contracts road work to VIRGINIA CONSTRUCTION CO., Waynesboro, BETTS & BOICE, Harrisonburg, McKINNEY BROS., Lynchburg, and J. R. FORD & CO., Lynchburg. Noted June 1.

Va., Richmond—City rejected bids paving Hanover Ave. and Perry St. C. E. Bolling, City Engr.

W. Va., Charleston—City let contract 26,000 sq.yd. paving to R. M. HUDSON PAVING CO., Charleston.

W. Va., Grafton—City let contract paving Bridge St. to WILLIAMSON & CO.

W. Va., Terra Alta—Contract let to WAYNE F. ALLEN, Clarksburg, $70,000, 4 mi. road to Maryland line.

W. Va., Wheeling—Ohio County let contract paving roads during year to COSS & MYERS, Wheeling. Noted June 29.

W. Va., Wheeling—Ohio County let contract supplying paving block for road work during year to MACK MANUFACTURING CO., New Cumberland, $18.25 per 1,000.

W. Va., Wheeling—(Official)—County let contract paving portion National Rd. to J. F. BALL, Wheeling, about $35,000. Noted June 29.

W. Va., Wheeling—(Official)—County let contract G. C. and P. Rd. to J. F. BALL, Wheeling, about $6,500. Noted June 29.

N. C., Henderson—(Official)—City let contract 35,000 ft. curb and gutter with storm drainage to R. G. LASSITER & CO., Oxford, $23,443. Noted June 22.

N. C., Roanoke Rapids—City let contract paving and sidewalks to MOORE & ABEEL, Wilmington, $20,000.

Fla., De Land—City let contract paving to J. B. McCRARY CO., Atlanta.

Ala., Vernon—Lamar County let contract grading and graveling roads to C. J. EDGAR, Vernon, and NEWELL BROS., Birmingham, about $30,000. Noted June 8.

Ohio, Ashland—City received bids from D. A. Phillips, Ashland, and Asphalt Block Co., Toledo, paving Sandusky, Arthur and Race St. Noted June 15.

Ohio, Cleveland Heights—(Warrensville post office)—Contract let to CLEVELAND TRINIDAD PAVING CO., 420 Lakeside Ave., N. E., Cleveland, paving Lamnerton, Clarkson, Beechwood, Altomont, Desota, Stillman, Westminster, Coventry and Berkeley St. and Euclid Heights Blvd. Noted May 11.

Ohio, Elyria—(Official)—City let contract improving Williams St. to G. RHOADS, $5,876; Winckles, Taylor and Olive St., ELYRIA CONSTRUCTION CO., Elyria, $12,000. Noted June 22.

Ohio, Findlay—City let contract paving portions Laquineo St., Greenlawn and Glendale Ave. to H. H. HALL, $8,200. Noted June 29.

Ohio, Madeira—(Official)—Village let contract sidewalks north side Camargo Rd. to J. W. Taneman, Hazlewood. Noted June 29.

Ohio, Maumee—(Official)—City let contract 20,000 sq.yd. paving to A. G. TRIPPEER, Peru, $38,978. Noted June 11.

Ohio, Tiffin—County let contract improving portion Morrison Rd. to G. SMITH, $10,225.

Ohio, Upper Sandusky—City let contract paving Bigelow and Walker St. to MODERN CONSTRUCTION CO., Fremont.

Ohio, Van Wort—City let contract improving portion North Wayne St. to McARTHUR & FOX, Kent. Noted June 8.

Ohio, Van Wert—City let contract improving portion East Ridge Rd. to McARTHUR & FOX, Kent. Noted June 8.

Ohio, Van Wert—City let contract improving portion East Main St. to FEDERAL ASPHALT CO., Hamilton. Noted June 8.

Ind., Anderson—City let contract sidewalks portion Hendricks St. to BURKE & HOPPES. Noted Apr. 6.

Ind., Brownstown—(Official)—Jackson County let contract roads to MASTERS CONSTRUCTION CO., Seymour, $70,000; J. DEGOLYER, Seymour, $40,000; JENNINGS & BEBOUT, Seymour, $4,444. Noted June 13.

Ind., Columbia City—(Official)—Whitley County let contract roads in Cleveland Township to WOLFCALE & CROW, Markle, $11,958 and C. W. WORTH & CO., Columbia City, $9,780. Noted June 29.

Ind., Connersville—(Official)—Fayette County let contract road in Connersville Township to CONNOR & SHERRY, Connersville, $38,998. Noted June 15.

Ind., Crawfordsville—(Official)—Montgomery County let contract road in Brown Township to REICHARD & SCRIBNER, $7,900. Noted June 29.

Ind., Danville—(Official)—Hendricks County let contract road in Clay Township to ERGANBRIGHT & DISNEY, North Salem, $8,241. Noted June 29.

Ind., Elkhart—(Official)—City let contract paving 4 streets to ANDREWS ASPHALT PAVING CO., Hamilton, Ohio, $10,523; Sherman St., NORTHERN CONSTRUCTION CO., Elkhart, $8,900.

Ind., Fowler—(Official)—Benton County let contract road in Oak Grove Township to EVANS & VAN NATTA, Fowler, $10,189. Noted June 15.

Ind., Franklin—(Official)—Johnson County let contracts for roads in Ninevah and Union Townships to BYERS CONSTRUCTION CO., Trafalgar, $14,220 and E. BARNETT, Bargerville, $5,960. Noted June 29.

Ind., Franklin—(Official)—Johnson County let contract road in White River Township to J. MURPHY, Greenwood, $4,500. Noted June 15.

Ind., Goshen—(Official)—County let contract road in Elkhart Township to CRIPE & SEAMAN, Goshen, $21,772. Noted June 29.

Ind., Greensburg—(Official)—Decatur County let contract roads in Fugit and Clinton Townships to W. AVERY, Waldron, and C. REDDINGTON, Greensburg. Noted June 29.

Ind., Indianapolis—(Official)—Marion County let contracts 4 roads in Center Township to SMITH-CARTER CO., $9,100; R. O. BENNETT & CO., $6,300; E. BERNS & CO., $10,550; EWING SHIELDS CO., $26,300. Noted June 22.

Ind., Indianapolis—City let contract street work to J. DOBBS, $6,000.

Ind., Jeffersonville—(Official)—Clark County let contract road in Jeffersonville Township to M. F. O'NEIL, Jeffersonville, $6,360. Noted June 15.

Ind., Kokomo—City let contract paving Indiana Ave., concrete, to J. H. WATSON & CO. W. F. Mann, City Engr. Noted May 25.

Ind., Lawrenceburg—(Official)—Dearborn County let contract road in Center Township to A. G. MILLER, Aurora, $12,979. Noted June 29.

Ind., Lebanon—(Official)—Boone County let contracts roads: F. LARY, Lebanon, $8,996; SHAHAN & SON, Lebanon, $8,640; G. T. MILLE, Lebanon, $17,378. Noted June 29.

Ind., Monticello—(Official)—White County let contract roads in Monon, Round Grove and Liberty Townships to G. A. KELLENBURGER, Reynolds, $4,595. Noted June 29.

Ind., Mt. Vernon—(Official)—Posey County let contract Hahn Rd. to L. J. UTLEY, Marrs, $11,690; Whitehead Rd., ARK CONSTRUCTION CO., Harmony, $11,313. Noted June 15.

Ind., Muncie—Delaware County let contracts roads in Center Township to W. E. HENDRICKS, $38,800, S. B. Perdieu Rd. and $42,460 Moffett Rd. Noted June 15.

Ind., Plymouth—(Official)—Marshall County let contracts gravel roads to ARTHUR W. O'KEEFE, Plymonth, Rd. No. 1, $27,811; Rd. No. 2, $18,498. Noted June 15.

Ind., Portland—(Official)—Jay County let contract roads in various townships to HA'LEY & TRANT, Hartford City, $49,000. Noted June 15.

Ind., Rochester—(Official)—Fulton County let contract road work to D. B. CLEVENGER, Rochester, $5,380. Noted June 15.

Ind., Rushville—Rush County let contracts roads to C. E. REDINGTON, Greensburg, $45,800; WILK & CO., Rushville, $13,160. Noted June 15.

Ind., Rushville—County let contract road to C. E. REDINGTON, Greensburg, $18,240. Noted June 15

Ind., Terre Haute—City let contract sidewalks to J. P. WELCH.

Ind., Tipton—City received lowest bid improving Mill St. from Adams Bros., Lebanon, $11,788.

Ind., Valparaiso—(Official)—Porter County let contracts roads in Westchester Township to R. DEMASS, Chesterton, $9,090. Noted June 15.

Ind., Warsaw—(Official)—Kosciusko County let contract county line road to W. COIN, Frankfort, $21,521. Noted June 15.

Ind., V. . .amac—Town let contract paving, curbing and guttering to PALMER, MOORE & CO., Logansport, $48,919. Noted June 29.

Mich., Kalamazoo—City received low bid for 300,000 paving brick from Bessemer Limestone Co., at $21.50 for repressed or wire lug cut 40 to sq.yd. C. L. Miller, City Clk.

Mich., Kalamazoo—City let contract 25,000 sq.yd. asphalt pavement to GLOBE CONSTRUCTION CO., Kalamazoo.

Mich., South Haven—County let contract 2¾ mi. road to S. L. PARR, Grand Rapids, $20,500.

Ill., Evanston—City let contract paving and water mains to M. FOLEY CO., 716 Main St., $101,376. Noted June 15.

Ill., Glencoe—City let contract paving E. M. LAING, $7,187.

Ill., Joliet—City let contract paving portion North Collins St. to R. F. CONWAY PACKING CO., Chicago, $24,235.

Ill., Mattoon—City let contract paving Bowman Ave. to J. C. POLL, $65,000.

Ill., Normal—City let contract paving portion Division St. to I. D. LAIN, $29,735.

Ill., Rock Island—City let contract paving 17th St. to McCARTHY IMPROVEMENT CO., Davenport, $16,345. Noted Feb. 17.

Ill., Springfield—(Official)—State Highway Comn. let contracts road work; McHenry County, Section G, J. V. WRIGHT, Harvard, $11,791; Sangamon County, Sec. 1, J. E. BRETZ, Springfield, $12,979; Douglas County, Sects. D and E, GOGGIN CONSTRUCTION CO., Arcola, $12,835.

Ill., Taylorville—City let contract paving State St. to H. NELCH & SON, $4,027.

Wis., Burlington—City let contract paving Kane St. to E. H. MERRICK, Burlington; curbing and guttering several streets, W. SOETEBIER; paving Chestnut, Pine and Wilmot Ave., WESTERN IMPROVEMENT CO., Racine. Noted June 15.

Wis., Chilton—City let contract 1 mi. road to F. EUL, Menasha, $12,000.

Wis., Oshkosh—City let contract macadamizing 15th St. and Grand Ave. C. JOHNSON, Oshkosh. Noted June 1.

Wis., Superior—City let contract paving portion North 21st St. to T. G. LAUGHREN, $4,261. Noted July 6.

Iowa, Cedar Rapids—(Official)—City let contract 24,000 yd. paving to FORD PAVING CO., Cedar Rapids. Noted June 15.

Iowa, Davenport—City let contract paving 18th Ave. to D. J. RYAN CONSTRUCTION CO., $10,604.

Iowa, Davenport—City let contract grading Lombard St. to LITTIG CONSTRUCTION CO., 22c. per cu.yd.

Iowa, Des Moines—City let contract paving portion East Grand Ave to J HORRABIN & CO., $1.87½ per sq.yd. Noted May 25.

Iowa, Eldora—County let contract road grading to L. C. WOOD & CO., Alden, about $15,000.

Iowa, Marshalltown—City let contract paving Dist. Nos. 3, 4, 5 and 6 to WESTERN CONSTRUCTION CO., Sioux City. Noted June 15.

Iowa, Mason—Cerro Gorde County let contract grading to BARNES BROS., Des Moines.

Iowa, Muscatine—(Official)—City let contracts paving to FORD PAVING CO., Cedar Rapids, $27,078, and KORNEMAN & SMITH, Muscatine, $6,939. Noted Apr. 27.

Iowa, Oskaloosa—City let contract paving portion North 9th St. to BURLINGTON CONSTRUCTION CO., Burlington.

Iowa, Oskaloosa—City let contract paving High Ave to BURLINGTON CONSTRUCTION CO., Burlington.

Iowa, Spencer—County let contract grading 20 mi. road to R. CONDON, Omaha, Neb.

Iowa, Traer—City let contract of 15,800 sq.yd. paving to DEARBORN CONSTRUCTION CO., Waterloo, at $1.74 per sq.yd. Noted June 8.

Minn., Duluth—City let contract paving 20th Ave. to D. H. CLOUGH & CO., $9,028. Noted June 15.

Minn., Duluth—City let contract paving Weeks Ave. to M. PETERSON.

Minn., Gilbert—City let contract paving to LAWRENCE-McCANN CONSTRUCTION CO., Eveleth. Noted June 8.

Minn., Northfield—(Official)—City let contract paving to FIELDING & SHEPLEY, 216 University Ave., St. Paul, $2 17 per sq yd. Noted June 29.

Minn., St. Paul—County let contract Jeflerson-Cretin Highway to O'NEILL & PRESTON, St. Paul, $34,196.

Minn., St. Paul—City let contract grading Waseca, Page, Morton, Bellows, Louise and Elizabeth St. to KEOUGH BROS., Hamline and Otto Ave., $13,600. Noted June 29.

Kan., Osawatomie—City let contract paving to A. B FERGUSON, $12,000. Noted June 15.

Kan., Peabody—City let contract 22,000 yd. asphalt paving to A. JAICKS CO., Kansas City, Mo., $36,000. Noted Apr. 20.

Kan., Topeka—City let contracts sidewalks to F LUTTJOHANN.

Neb., Lincoln—City let contract paving ABEL CONSTRUCTION CO., Lincoln, $40,000.

S. D., Piermont—City let contract 8 mi. road to O. L. BISTODEAU.

Mont., Denton—Town let contract sidewalks, curbs and crosswalks to TWO MIRACLE CO., Great Falls. Noted June 22.

Mo., Cameron—City let contract paving portion Cherry St. to E. MAIN, Liberty. Noted June 15.

Mo., Higginsville—City let contract paving and guttering to F. R. MARTIN CONTRACTING CO., Kansas City, $25,000.

Mo., St. Louis—Bd. Pub. Ser. let contracts for paving portions various streets: John F. McMahon, Gilmore Ave., $11,512; FRANK A. STIERS, Forest Ave., $12,682, West Park Ave., $4.159, Bruno Ave., $6,724; SKRAINKA CONSTRUCTION CO., alleys in various locations, $14,142. Noted June 8.

Tex., Beaumont—County let contracts 9 mi. paving on road between Beaumont and Port Arthur: EUREKA CONSTRUCTION CO., 4 mi., UVALDE ROCK ASPHALT CO., 3 mi., CHAPIN-COLGLAZIER CONSTRUCTION CO., 2 mi. Noted June 22.

Tex., Beaumont—County let contract Nome-Sour Lake Rd., China-Nome Rd. and Nome-Liberty Rd., to HADEN & BATES, Galveston.

Tex., Bryan—City let contract 53,000 sq.yd. asphaltic concrete paving $1.35 sq.yd. and 47,000 sq.yd. rock asphalt paving $1 sq.yd. to KAW PAVING CO., Topeka, Kan.

Tex., Dallas—City let contract 26,666 sq.yd. paving to CALLAHAN CONSTRUCTION CO.

Tex., Galveston—City received low bid paving in West End Cleveland Trindidad Paving Co., Cleveland, $66,120 vitrified paving blocks and $75,376 wood block.

Tex., Houston—City let contract paving portion Montrose Blvd. to TALBOT CO., Houston, $35,517. Noted May 25 and July 6.

Idaho, Sandpoint—City let contract paving Pine St. to SPOKANE BITUMINOUS PAVING CO., Spokane, $13,530. Noted June 29.

Wash., Bellingham—Whatcom County let contract paving Marietta Rd. to T. RYAN CONSTRUCTION CO., Lowman Bldg., Seattle, $54,944. Noted July 6.

Wash., Blaine—City let contract paving 1½ mi. road to LEDINTWELL & COOPER, Vancouver, B. C. Noted May 25.

Wash., Montesano—Chehalis County let contract paving Olympic Highway to OLYMPIC PAVING CO., Hoquiam, $15,490.

Wash., Renton—County let contract highway from Renton to Hazlewood to P. G. DUNN & CO., 8722 Rainier Ave., $44,965.

Wash., Sedro Woolley—City let contract paving several streets to LA PLANT & CO., $21,280. Noted Apr. 13.

Wash., Tacoma—County let contract Permanent Highway No. 8 to INDEPENDENT ASPHALT PAVING CO., Perkins Bldg., $34,696. Noted June 8.

Wash., Walla Walla—City let contract paving 15 streets to WARREN CONSTRUCTION CO., Portland, $1.29 sq.yd., bitulithic. Noted June 29.

Ore., Astoria—City received bids paving (a) bitulithic, (b) concrete, (c) asphalt, (d) brick, from Western Paving Co., (a) $32,670, (b) $32,695, (c) $33,662, (d) $41,864; Warren Construction Co., Portland, (a) $33,474.

Ore., Bend—State Highway Comn., Salem, received low bid for highway near Bend from Joseph Rock, Bend, $19,800.

Ore., Dallas—City let contract sidewalks to J. T. JOHNSON, Dallas.

Ore., Portland—County let contract Canyon Rd. to E. T. JOHNSON CO., Portland, $20,029.

Calif., Bakersfield—City let contract improving Beale Ave. to F. W. NIGHTBERT.

Calif., Berkeley—City let contract improving Walnut St. to HUTCHINSON CO., 13th and Franklin St.; Tamalpais St., to WESTERN CONSTRUCTION CO.

Calif., Los Angeles—City let contract paving Dayton Ave. to FORD & STOUT, Bradbury Bldg., about $40,000.

Calif., Los Angeles—City let contract paving portion Craig Ave. and Texas St. to E. A. BAKER, 407 Hellman Bldg., $10,885. Noted June 29.

Calif., Los Angeles—County received low bid paving portion Olive St. from FRED HOFFMAN, 111 East 12th St., Long Beach, $20,500.

Calif., Manhattan—City received lowest bid paving Marine Ave. from California-Arizona Construction Co., 1700 East Washington St., Los Angeles, $30,000.

Calif., Martinez—City let contract surfacing Div. 1, Tunnel Rd., to CITY IMPROVEMENT CO., 166 Geary St., San Francisco, $12,879; Div. 2, A. H. KOPPERUD, 2030 High St., Oakland, $9,357. Noted Jan. 6.

Calif., Oakland—City let contract improving Fallen St. to CLARK & HENEREY CONSTRUCTION CO., Sacramento; Fleming Ave., HUTCHINSON CO., 13th and Franklin St.

Calif., Oakland—City let contract improving Custer St. and Harrington Ave. to OAKLAND PAVING CO., 5000 Broadway.

Calif., Oakland—County let contract paving 14th St. to RANSOME-CRUMMEY CO., $101,225.

Calif., Richmond—P. Schnerr, Berkeley, $33,187, low bidder for paving 1 mi. State Highway.

Calif., Riverside—City let contract improving portion Fairmont Blvd. to JOHNSON SHEA CO., Riverside, $15,388.

Calif., Sacramento—(Official)—State Highway Comn. received low bid section highway in Contra Costa County, Div. 4, Route 14, Sec. A, from Blanchard-Brown Co., San Francisco, $32,257.

Calif., Sacramento—State Highway Comn. received low bid section highway in Ventura County, Div. 7, Route 2, Sect. C, from Modern Construction Co., Inc., Los Angeles, $31,948; San Mateo County, Div. 4, Route 2, Sect. B, J. A. Marshall, Berkeley, $37,290. Noted June 15.

Calif., Sacramento—(Official)—State Highway Comn. received low bid section highway in Humboldt County, Div. 1, Route 1, Sect. G, from Elsmore & Jacobs, Eureka, $23,080.

Calif., San Francisco—City let contract improving portion Geary St. and Point Lobos Ave. to RANSOME-CRUMMEY CO., First National Bank Bldg., Oakland, $24,989; 23d St., J. F. DOWLING, Russ Bldg., $7,505.

Calif., Sausalito—Town let contract paving West and Central Ave. and North St. to WESTERN MOTOR DRAYAGE CO., 1444 Church St., San Francisco, $13,151.

Calif., Upland—(Official)—City let contract improving Ruedy St. to HEINAUER & KYLE. Noted June 8.

Calif., Ventura—Contract let to CONNER CONTRACTING CO., Los Angeles, $24,676, paving Oxnard-Camarillo Rd.

Calif., Visalia—City let contract paving South Garden St. to WORSWICK CONSTRUCTION CO.

Calif., Willitts—Town let contract paving Main St. to A. J. and J. L. FAIRBANKS, $11,266.

Ont., Dundas—City let contract sidewalks to MAPLE LEAF PAVING CO., Simcoe. Noted May 18.

Ont., Ottawa—City let contract paving to UNION CONSTRUCTION CO., Bank St. Chambers, $41,160.

INDUSTRIAL WORKS

Proposed Work

Maine, Biddeford—Mechanics Shoe Co. plans 3-story factory. About $25,000.

Mass., Franklin—F. H. Appleton & Son, Fisher St., making plans for 4-story, 50x100-ft. storehouse and office building. W. L. Collins, Collins Bldg., Milford, Arch.

Mass., Lowell — Costikyan Carpet Co. making plans for 3-story, 50x200-ft. and 100x200-ft. factory. About $300,000. R. R. Livingston, 2 Rector St., New York, Arch. Noted June 8.

Mass., Millbury—Windle Wool Scouring Co. will build 2-story factory and 1-story power station near Boston and Albany Division tracks, about $70,000.

Mass., New Bedford—W. C. Jones, Nash Rd., making plans for addition to factory. Monks & Johnson, 78 Devonshire St., Boston.

Mass., Richmond—Columbia Narrow Fabric Co. plans factory, about $30,000.

Mass., Worcester—B. Handleman plans garage, Portland and Salem St., about $10,000.

Conn., Stamford—Lincrusta Pallas, Inc., 121 East 24th St., New York, making plans for 3-story, 120x145-ft. rein.-con. factory at Stamford. About $100,000. J. Hankin & Bros., 550 West 25th St., New York, Arch.

N. Y., Buffalo—Danahy Packing Co. granted permit for addition on Metcalfe St. About $7,500. Noted Feb. 24.

N. Y., Buffalo—Donner Steel Co. granted permit for additions on Abbott Rd. About $100,000. Noted May 11.

N. Y., New York—(Borough of Manhattan)—W. C. Bergen, 1932 Arthur Ave., made plans for 2-story, 68x152-ft. garage. About $25,000. W. C. Martin, Arch.

N. Y., New York—(Borough of Manhattan)—Eugene Haggin, 1 Madison Ave., made plans for 2-story, 42x100-ft. garage at 421 West 115th St. Sommerfeld & Steckler, 31 Union Sq., Arch.

N. Y., New York—(Borough of Manhattan)—D. Meehan, 1966 Broadway, making plans for 6-story, 100x100-ft. garage. About $130,000. J. C. Cocker, 2017 5th Ave., Arch.

N. Y., New York—(Borough of Manhattan)—Dept. of Pub. Charities, East 26th St., made plans for plant. About $400,000. B. W. Levitan, 20 West 31st St., Arch.

N. Y., New York—(Borough of Manhattan)—F. Sanford made plans for 4-story, 50x100-ft. garage at 140 West 54th St. About $50,000. A. W. B. Wood, 103 Park Ave., Assoc. Arch.

N. Y., New York—(Borough of Manhattan)—M. Zurille making plans for 4-story, 42x87-ft. garage at 52 Watt St. About $22,000. De Rosa & Savignano, 150 Nassau St., Arch.

N. Y., New York—(Borough of Queens)—American Hard Rubber Co. made plans for 3-story factory at 3d Ave. and 5th St., College Point. About $60,000. Noted Sept. 23.

N. Y., Peekskill—(Official)—State Bd. Armory Comrs., 158 State St., Albany, receiving bids July 20 for concrete storage house, State Camp Instruction, Westchester County. F. D. Ward, Secy. (See adv.)

N. Y., Rochester—North East Electrical Co. plans addition, about $80,000.

Penn., Chester—Westinghouse Electric and Manufacturing Co. plans plant in Tinicum Township.

Penn., Erie—Lakeside Forge Co. to build machine-ship addition, about $10,000.

Penn., Hazleton—Duplan Silk Co. plans 1-story addition to factory. E. Buhler, Mgr

Penn., Philadelphia — Philadelphia Rubber Works Co. made plans for 1-story addition to factory. Stuckert & Co., Arch.

Penn., Pittsburgh—A. M. Thompson, 724 Frick Bldg., made plans for 2-story laundry and garage. D. Goldner, Highland Bldg., Arch.

Penn., Reading—Simon & Sherman, 135 Grape St., making plans for packing and abattoir plant. About $90,000. Noted June 22.

Md., Baltimore—Standard Guano Co. made plans for 3-story plant. About $100,000. P. Gilchrist, Charlotte, N. C., Arch. Noted Sept. 23.

Va., Clifton Forge—J. S. Smith & Co. made plans for factory and store building. About $20,000. S. A. Persinger, Arch.

Va., Newport News—Duristo Paint Co. plans 3-story, 50x100-ft. factory. About $22,000. Mackee & Williams, First National Bank Bldg., Arch.

Va., Norfolk—Virginia Hyde and Fur Co. making plans for 1-story addition to plant. About $15,000. W. W. Gwathney, Seaboard Bank Bldg., Arch.

Va., Richmond—M. S. Block & Son made plans for 3-story factory. Corneal & Johnson, Chamber of Commerce Bldg., Arch.

Va., Roanoke—Modern Mills, Inc., Johnson City, Tenn., plans flour mill, South Jefferson St.

W. Va., Huntington—Fulton Tool Co, Canal Fulton, plans plant.

W. Va., Moundsville—United Zinc Smelting Corporation will build plant. About $1,500,000. M. M. Pearlman, Moundsville, Mgr.

W. Va., Rosedale—H. C. Beacon Carbon Co. making plans for factory. L. G. Schroeder, 39 Grand St., New York, Pres.

W. Va., Warwood—Globe Automatic Sprinkler Co., 2019 Washington Ave., Philadelphia, plans plant at Warwood. About $35,000.

N. C., Durham—Liggett & Myers Tobacco Co. plans additions to plant. About $100,000.

N. C., Winston-Salem—C. M. Thomas plans 2-story cold-storage plant.

Fla., Jacksonville—J. T. Land plans 2-story warehouse. About $60,000.

Fla., Jacksonville—Dunnellon Phosphate Co. plans elevator and drying plant. J. L. Ingis, Pres.

Fla., Marianna—Brandon Grain Co. plans grain elevator.

Fla., Tampa—E. Johnson, 30 Church St., New York, plans shipbuilding plant at Tampa.

Ala., Birmingham—Linde Air Products Co., 42nd St. Bldg., New York, made plans for plant, 10th Ave. and 28th St. Noted Mar. 9.

La., Bogalusa—Great Southern Lumber Co. plans factory. W. H. Sullivan, Gen. Mgr.

Ohio, Akron—Northern Ohio Traction and Light Co. making plans for 1- and 5-story warehouse and electric packing station. About $90,000. Franz Warner, 718 Hippodrome Bldg., Cleveland, Arch. Noted June 29.

Ohio, Cleveland—Halle Bros. Co. made plans for 4-story garage and warehouse, 1809 East 22nd St. About $70,000. S. P. Halle, Euclid Ave. and East 12th St., Pres. Noted May 11.

Ohio, Cleveland—National Bronze and Aluminum Foundry Co., 2539 East 79th St., made plans for addition. About $15,000. Noted June 29.

Ohio, Marion—Bindley Grocery Co. plans new building south of present plant on North State St.

Ohio, Springfield—M. L. and W. B. Kleeman plans 3-story warehouse on West Washington St.

Ohio, Toledo—E. H. Depenthal plans storage building. About $60,000.

Ohio, Warren—Ohio Corrugation Co. plans factory. C. H. Riegal, South Pine St., Mgr.

Ind., Evansville—Evansville Pure Milk Co. making plans for 3-story, 45x55-ft. creamery. About $12,000. J. C. Fischer, 501 Upper 8th St., Secy.

Ind., Indianapolis—E. C. Atkins & Co., South St. and Capitol Ave., plans 2-story factory. About $75,000.

Ind., Indianapolis—Diamond Chain and Manufacturing Co. making plans for plant. Westinghouse, Church, Kerr & Co., 37 Wall St., New York, Engr.

Ind., Indianapolis—Gibson Co., 416 North Capitol Ave., plans 5-story service station and sales building, Capitol Ave. and Michigan St. About $400,000.

Ind., Indianapolis—Powderes Coal Engineering and Equipment Co., Chicago, plans plant at Indianapolis. About $225,000.

Ind., Indianapolis—Stutz Motor Car Co. of Indiana reorganized to Stutz Motor Car Co. of America and will enlarge plant. A. A. Ryan, Vice-Pres.

Ind., La Fayette—Hoosier Oil Refining Co. plans automobile service station on Columbia St. H. D. Willcuuts, Kokomo, Gen. Mgr.

Mich., Belding—Richardson Silk Co. making plans for 4-story, 45x100-ft. warehouse. About $20,000. F. P. Allen & Son, Houseman Bldg., Grand Rapids, Arch.

Mich., Charlotte—Borden Condensed Milk Co. making plans for dry milk plant. About $40,000. Noted Jan. 20.

Mich., Detroit—Barrett Manufacturing Co., 17 Battery Pl., made plans for condenser building and distillation plant. About $100,000.

Mich., Detroit—Saxon Motor Co. making plans for plant at Addison Ave. and Ford Rd. Noted June 1.

Mich., Grand Rapids—Highgrade Motors Co. being organized, plans factory. About $50,000.

Mich., Jackson—Haynes Wheel Co. plans improvements, about $35,000.

Mich., Jackson—Michigan Central R.R. plans additions to shops at Jackson Junction. About $250,000. G. H. Webb, Passenger Terminal Bldg., Detroit, Ch. Engr.

Mich., Johannesburg—Johannesburg Manufacturing Co. plans rebuilding planing mill.

Mich., Menominee—Michigan Electrochemical Co. organized with $150,000 capital to build plant in Menominee. C. W. Gram, Menominee, Pres.

Mich., River Rouge—Ford Automobile Co., Detroit, plans plant at River Rouge. About $8,000,000.

Ill., Alton—Alton Baking and Catering Co. making plans for addition to plant. About $25,000. J. Maupin, Arch.

Ill., Assumption—Locharite Grain Co. making plans for grain elevator, about $14,000. Decatur Construction Co., Waite Bldg., Decatur, Engr.

Ill., Byron—Medill McCormick, 111 West Washington St., Chicago, making plans for 1-story plant. About $30,000. Alfred Hopkins, 101 Park Ave., New York, Arch.

Ill., Chicago—Excelsior Steel Furnace Co. making plans for plant in Goose Island Section. About $200,000. Noted Nov. 25.

Ill., La Salle—Standard Oil Co. plans warehouse and garage. About $30,000. A. Jackson, Joliet, Dist. Secy.

Wis., Barksdale—Du Pont Powder Co. plans addition to plant.

Wis., Chippewa Falls—Western Pump and Machine Co., 1012 University Ave., St. Paul, plans factory at Chippewa Falls. About $100,000.

Wis., Eau Claire—Chippewa Foundry and Machine Co. plans factory.

Wis., Kenosha—Peter Pirsch Co. made plans for 1-story, 100x200-ft. rein.-con. factory. White & White, Public Service Bldg., Arch. Noted Mar. 23.

Wis., Milwaukee—Heil Co. making plans for 1-story, 80x220-ft. factory at 26th St. and Mt. Vernon Ave. King & Smith, Engr.

Wis., Milwaukee—Turbine Machine Renovating Co., Wells and 11th St., made plans for addition. Leiser & Holst, Germania Bldg., Arch.

Wis., Sheboygan—Advance Machinery Co., Toledo, Ohio, plans factory on Union Ave.

Iowa, Ames—Iowa State Agricultural College making plans for abattoir. About $50,000. Proudfoot, Bird & Rawson, 810 Hubbell Bldg., Des Moines, Arch.

Minn., St. Cloud—Standard Oil Co. plans plant on 8th Ave. About $25,000.

Kan., Augusta—Woods Machinery Co. plans plant.

Mont., Great Falls—L. M. Stewart and R. V. McNight making plans for garage and machine shop. About $25,000. H. H. Johnson, Arch.

Ark., Texarkana—Texarkana Ice Co. plans addition to plant. C. W. Dawley, McAlester, Okla., Pres.

Tex., Dallas—Pyrotone Chemical Co. plans plant and laboratories. C. I. Faison, interested.

Okla., Afton—Lipscomb Grain Co. plans grain elevator. C. Lipscomb, Liberal, Mo., interested.

Idaho, Boise—Boise-Payette Lumber Co. plans plant. About $600,000.

Wash., Chehalis—Chehalis Mill Co. plans factory at South Chehalis.

Wash., Seattle—Garford Motor Truck Co., Lima, Ohio, plans factory at Seattle. E. A. Williams, Jr., Pres.

Wash., Seattle—Washington Iron Works plans plant. About $100,000.

Wash., Seattle—Willys-Overland Co. plans plant.

Ore., Warrenton—American Shipbuilding Co. plans plant. Harry P. Spear, Portland, interested. Noted Apr. 20 under Portland.

Calif., Berkeley—American Photo-Player Co. will build 2-story addition to factory, Bonar and Addison St.

Calif., San Francisco—Growers' Rice Mill plans 2- and 4-story mill, 3rd St. and Islais Creek, about $50,000. O'Brien Bros., 240 Montgomery St., Arch.

Que., Quebec—St. Lawrence Paper Bag Co., 103 Marguerite St., making plans for addition, about $20,000. Talhot & Dionne, 16 St. Joseph St., Arch.

Ont., Galt—Roelofson Machine and Tool Co., Ltd., will build machine shop, about $10,000.

Ont., Guelph—Dominion Linens, Ltd., making plans for plant. About $10,000. Tanner & Tanner, Douglas St., Arch.

Ont., Leamington—Heintz Pickle Co. will build addition, about $25,000.

Ont., Markham—Purvis Salts Co. plans factory. A. W. Burk, Toronto, Pres.

Ont., Peterboro—Bonner Worth Co. plans new factory. About $10,000. W. Langford, Water St., Arch.

Ont., Toronto—W. Davies Co., 521 Front St., making plans for ice and cold-storage plant, about $50,000. Heuschlieu & McLaren, 431 South Dearborn St., Chicago, Ill., Arch.

Ont., Toronto—Du Pont Fabrikoid Co., 864 Dufferin St., Toronto, plans factory at New Toronto.

Ont., Toronto—T. Eaton Co., Ltd., Yonge St., soon receives bids for factory, Bloor and Dufferin St., about $50,000. W. Steele & Son, Ryrie Bldg., Arch. Noted May 18.

Ont., Toronto—Toronto Carpet Manufacturing Co., King St., W., plans new factory.

Man., Winnipeg—Western Canada Marble and Tile Co., Ltd., will build factory, about $10,000.

Bids In and Contracts Awarded

Mass., Boston—(Charlestown)—Freeman Bros., Sullivan Sq., let contract 2-story, 40x54-ft. garage to J. T. BALL, 39 Rosedale St., Dorchester.

Mass., Boston—(South Boston)—Perry Buston Doane Co., 307 Atlantic Ave., Boston, let contract 2-story, 40x75-ft. factory to J. M. & C. J. BUCKLEY, 164 Federal St., Boston.

Mass., Brookfield—Ware Realty Co. let contract for mill for Ideal Coated Paper Co. to H. P. CUMMINGS CONSTRUCTION CO, $45,487.

Mass., Cambridge—Boston Machine Screw Co., 133 Oliver St., let contract factory to F. L. McKENZIE, 7 Water St. About $17,500.

Mass., Chelsea—Atwood & McManus, Vale St., let contract 3-story, 50x38x150-ft. addition to J. W. BISHOP & CO., 683 Atlantic Ave.

Mass., Lynn—E. W. Burt & Co. let contract 3-story, 40x100-ft. addition to C. S. CUNNINGHAM & SONS CONSTRUCTION CO., 7 Water St., Boston. About $17,000.

Mass., Waltham—West End Garage Co. let contract 1-story, 100x200-ft. garage on Main St. to J. LEVINE, 75 Holworthy St., Boston. About $65,000.

R. I., Woonsocket—E. Blackall let contract 2-story, 100x120-ft. warehouse to EASTERN CONSTRUCTION CO., 110 West 40th St., New York. About $15,000.

Conn., South Norwalk—James A. Farrell, Belle Island, let contract 2-story garage to W. G. MAHER CO., 52 Vanderbilt Ave., New York. About $30,000.

N. Y., Buffalo—F. F. Dalley Co. let contract 5-story, 94x96-ft. factory to H. G. CHRISTMAN & CO., Hamilton. About $100,000. Noted June 29.

N. Y., Buffalo—Fleishmann Malting Co., 2212 Niagara St., let contract grain storage bins to TIFFT CONSTRUCTION CO., 37 Church St. About $27,000.

N. Y., Buffalo—King Sewing Machine Co. let contract addition to CHARLES BERRICK, 1151 Main St. About $14,000. Noted June 22.

N. Y., Cobleskill—Miner, Harder & Co. let contract factory to HALL & HOWLAND.

N. Y., Dansville—Powers Specialty Co. let contract 1-story addition to A. J. WERDEIN, Elizabeth St.

N. Y., Elmira—Morrow Manufacturing Co. let contract factory No. 49 to W. R. COMPTON REALTY AND CONSTRUCTION CO., 201 Lake St., Elmira. About $150,000.

N. Y., New York—(Borough of Manhattan)—Bordens Condensed Milk Co., 100 Hudson St., let contract 5-story plant to M. HIGGINSON, 1123 Broadway. About $60,000. Noted Apr. 27.

N. Y., New York—(Borough of Manhattan)—Hudson Motor Car Co., 1842 Broadway, let contract 3-story, 100x231-ft. garage to CHAMPLIN CONSTRUCTION CO., 103 Park Ave. About $100,000.

N. Y., New York—(Borough of Manhattan)—Manhattan Brass Co. let contract addition to GABLER CONSTRUCTION CO., 114 Leroy Ave. About $10,000.

N. Y., New York—(Borough of Manhattan)—Metropolitan Roofing Metals Co., 203 East 135th St., let contract warehouse to G. HOFFMANN, 1071 Washington Ave. About $60,000.

N. Y., New York—(Borough of Manhattan)—Port Morris Industrial Terminal Co. let contract 1-story addition factory to RILEY & COURTNEY CO., 118 Manhattan St. About $10,000.

N. Y., New York—(Borough of Manhattan)—A. N. Rozell let contract masonry for garage and stable at 267 West 87th St. to F. SEERY, 30 East 42d St. About $50,000.

N. Y., New York—(Borough of Queens)—Ford Motor Co., Jackson Ave., let contract factory and office building to CARLETON CO., INC., 151 West 42nd St. About $15,000.

N. Y., New York—(Borough of Richmond)—American Linoleum Co., 366 5th Ave., Manhattan, let contract 1-story, 28x128-ft. addition at Linoleumville to J. MILNE CO., Richmond Ave., Port Richmond. About $25,000.

N. Y., Rochester—Mandeville & King, 186 Main St., let contract masonry for 2-story, 50x150-ft. warehouse to A. FREDERICHS & SONS CO., 710 Lake Ave. Noted May 11.

N. Y., Rochester—W. A. Naramore, 110 Westminster Rd., let contract 2-story garage to H. LEMPERT, 30 South Goodman St., about $20,000.

N. Y., Schenectady—American Locomotive Works let contract 1-story addition to J. McDERMOTT, 103 Wendell Ave. About $85,000. Noted June 8.

N. Y., Syracuse—Genesee Motor Car Co., 428 East Jefferson St., let contract garage and show room to E. K. FENNO, North Beach St., about $50,000. Noted Mar. 16.

N. Y., Syracuse—Sanderson Works, Syracuse Crucible Steel Co. of America, let contract 2-story, 80x300-ft. factory to E. K. FENNO, North Beach St. About $75,000. Noted Jan. 20.

N. J., Irvington—Irvington Smelting and Refining Co., 122 Cottage St., let contract 1-story factory to BECKER CONSTRUCTION CO., 361 Grove St., Newark. About $13,000.

N. J., Jersey City—Pennsylvania R R. let contract 4-story warehouse foot 7th St. to SNARE & TRIEST CO., 49 South Wharves, Philadelphia.

N. J., Newark—Potts & Kaufman, 226 Washington Ave., let contract 3-story addition to warehouse to D. I. MUDDELL, 120 Elm St., Rahway. About $17,000

N. J., Newark—Louis Sacks Foundry let contract masonry addition to C. S. COOPER, Clinton Bldg. About $15,000. Noted June 1.

N. J., New Brunswick—E. Mount, Englishtown, let contract 3-story, 40x150-ft. garage at Albany St. and Spring Alley to L. BOARD, 120 Easton Ave. About $28,000. Noted June 15.

Penn., Allentown—Hersh & Bros., 829 Hamilton St., let contract 2-story, 70x80-ft. warehouse to OCHS CONSTRUCTION CO., 5th and Wire St. About $15,000.

Penn., Butler—H. Nicholas let contract 3-story, 58x60-ft. warehouse to G. OSTERLING, 345 Mercer St.

Penn., Erie—Ball Engine Co. let contract 2-story addition to CONSTABLE BROS CO. About $20,000.

Penn., Lancaster—H. Slaugh, 52 South Ann St., let contract dye house and laundry to J. K. WOERTH, 609 West Lemon St.

Penn., Philadelphia—Bell Co., 953 North Hancock St., let contract 5-story, 100x116-ft. warehouse and office building to HARRY GILL, JR., 2515 Germantown Ave. Noted June 22.

Penn., Philadelphia—Morris Estate let contract 2-story, 46x112-ft. warehouse and garage to LANSDOWNE CONSTRUCTION CO., Lansdowne.

Penn., Philadelphia—Raesch Packing Co. let contract 3-story packing plant to A. R. RAFF CONSTRUCTION CO., 1635 Thompson St.

Penn., Philadelphia—Surpass Leather Co., 9th St., let contract 4-story addition to G. KESSLER CONTRACTING CO.

Penn., Philadelphia—W. R. Werner Co., 639 North Broad St., let contract 6-story factory to W. R. STEELE & SONS CO., 1600 Arch St., about $300,000.

Penn., Pittsburgh—W. C. Burry Co. let contract 3-story bakery to D. T. RIFFLE, 1400 Keenan Bldg. About $60,000.

Penn., Williamsport—A. Mardi's Sons, 453 Market St., let contract 2-story, 50x60-ft. storage building and garage to CRANDALL BROS. About $12,000.

D. C., Washington—Peter Latterner, 111½ St., N. W., let contract 3-story warehouse to BOYLE-ROBERTSON CONSTRUCTION CO., 1516 H St., N. W. About $75,000. Noted May 11.

W. Va., Wheeling—J. W. Beltz submitted lowest bid for 2-story bakery for General Baking Co. About $50,000. W. H. Collins, Pres. Noted Feb. 17.

Ohio, Akron—Summit Wholesale Grocery Co. let contract 2-story, 55x55-ft. warehouse and office building to J. CRISP. About $65,000.

Ohio, Athens—McLee Bindery let contract 1-story factory to J. F. ROBBINS, Athens. About $35,000.

Ohio, Bucyrus—Sommers Motor Co. let contract factory to G. B. HICKS. Noted June 15.

Ohio, Canton—Canton Electric Co. let contract storage building to E. J. LANDOR, Canton. About $50,000. Noted May 4.

Ohio, Cleveland—J. G. Brill Car Co. let contract 2-story, 80x440-ft. factory to W. I. THOMPSON, 6408 Euclid Ave. About $140,000. Noted June 1.

Ohio, Cleveland—J. Frank, 3637 Cedar Ave., let contract 2-story warehouse to S. FRANK, 2555 East 38th St. About $12,000.

Ohio, Cleveland—Grasselli Chemical Co. let contract 2-story laboratory to CROWELL, LINDOFF & LITTLE CO., 1951 East 57th St. About $75,000. Noted May 18.

Ohio, Cleveland—Park Drop Forge Co., East 79th St., let contract addition to G. B. McMILLAN CO., 1794 East 55th St., about $10,000.

Ohio, Dayton—Edgement Machine Co. let contract 2-story, 50x100-ft. factory to G. W. HOLTON, 828 South Dennison Ave. About $20,000. Noted Mar. 23.

Ohio, Lima—Lima Telephone and Telegraph Co. let contract warehouse to T. R. SLIEMERS. About $25,000.

Ohio, Steubenville—General Baking Co. let contract 2-story bakery to W. F. COOPER CO., Toronto. About $25,000. Noted Apr. 20.

Ohio, Zanesville—Dresden Paper Mills Co. let contract factory to W. C. HANDSHY & SON, Zanesville, $13,000.

Ind., Ft. Wayne—Ft. Wayne Rendering Co. let contract 3-story plant to INDIANA ENGINEERING AND CONSTRUCTION CO.

Mich., Bay City—Bigelow-Cooper Co. let contract plant to BAY CITY STONE CO. About $25,000.

Ind., Anderson—McIntyre & Hilburt, 2308 Columbus Ave., let contract 2-story bakery on Meridian St. to D. ESHELMAN & SON, 126 West 5th St. About $21,000. Noted June 22.

Mich., Bay City—Young Packing and Cattle Co. let contract 2-story packing plant to WEBBER CONSTRUCTION CO., Bay City.

Mich., Grand Rapids—Excelsior Wrapper Co. let contract factory to HORNER & KELLEY, Widdicomb Bldg.

Mich., Grand Rapids—Imperial Furniture Co. let contract 2-story warehouse and factory to GENTZ BROS., Houseman Bldg.

Mich., Grand Rapids—Kindel Bed Co. let contract dry kiln to HAUSER & BRENNEN.

Mich., Holland—Home Furnace Co. let contract plant to TEN BROEKE & STERENBERG, $17,000.

Ill., Chicago—Humboldt Stair Works, 1616 North Richmond St., let contract factory to H. Y. SCHRIK & CO., Chicago.

Ill., Chicago—H. W. Hutchinson & Son, 337 West Madison St., let contract 2-story factory to P. LOTZ & CO., Chicago, about $20,000.

Ill., Chicago—W. P. Pelouze, 232 East Ohio St., let contract 7-story, 79x142-ft. warehouse and office building to J. RODATZ, 209 South La Salle St. About $175,000.

Ill., Chicago—Pullman Co. let contract shop buildings and crane runways to ARNOLD CO., 15 South La Salle St. About $3,000,000.

Ill., Rock Island—Moline Plow Co. let contract factory to STONE & WEBSTER, 147 Milk St., Boston. Noted July 6.

Wis., Combined Locks—Combined Locks Paper Co. let contract 2-story addition to WORDEN ALLEN CO., 208 South La Salle St. About $170,000.

Wis., La Crosse—(Official)—Fisk Rubber Co., Chicopee Falls, Mass., let contract 2-story, 50x100-ft. factory at 6th and State St. to PETER NELSON, $16,000. Noted Mar. 16.

Wis., Milwaukee—John Obenberger Forge Co. let contract plant to KLUG & SMITH, Mack Blk. About $60,000. Noted June 29.

Iowa, Marshalltown—Fisher Governer Co. let contract 2-story factory to JENSEN & ENO, 109 North 7th St., $15,000. Noted June 29.

Mo., St. Louis—St. Louis Electrical Works, 5410 Easton Ave., let contract 2-story factory to H. DILSCHNEIDER, 5879 Julian Ave. About $11,800. Noted June 8.

Tex., Galveston—Galveston Wharf Co. let contract Section D at Pier 39 to STONE & WEBSTER ENGINEERING CORPORATION, 147 Milk St., Boston, Mass. About $30,000.

Tex., Wharton—Texas Southern Electric Co. let contract cold-storage plant to J. T. WILLIAMS.

Idaho, Ilo—Ilo Rochdale Co. let contract 2 grain elevators to GLOBE CONSTRUCTION CO., Livingston, Mont., about $21,000.

Wash., Seattle—Port Comrs. let contract warehouse to VILTER MANUFACTURING CO., Milwaukee, $71,292. Noted Nov. 11.

Calif., Los Angeles—Firestone Tire and Rubber Co., 1239 South Olive St., let contract 3-story building, 12th and Figueroa St., to F. O. ENGSTRUM CO., $42,950. Noted July 6.

Calif., Los Angeles—P. Senegram let contract warehouse, 619 South Utah St., to A. J. BUCKSBY & SON, Bldrs. Exchange, about $10,000.

Ont., Campbellford—Northumberland Paper and Electric Co. let contract plant to T. McMANUS, $50,000. Noted June 8.

Ont., Hamilton—F. F. Dalley Co. let contract 5-story, 94x96-ft. factory to H. G. CHRISTMAN & CO., Hamilton. About $100,000.

Ont., Port Arthur—Grain Growers Grain Co., Winnipeg, Man., let contract elevator to S. J. McQUEEN, Ft. William. About $700,000.

Ont., Toronto—Bowles Lunch Co., Ltd., let contract bakery to W. J. JOY, 86 High Park Ave. About $30,000.

FEDERAL GOVERNMENT WORK

Proposed Work

Pa., Arlington—Approaches—Arlington Memorial Amphitheater Comn., 1729 New York Ave., Washington, receiving bids July 26 for masonry approaches to memorial amphitheater, Arlington National Cemetery. (See adv.)

D. C., Washington—Bridges—Comr. Indian Affairs, Washington, D. C., receiving bids Aug. 7. Cato Sells, Comr. (See adv.)

Va., Pulaski—Post Office—U. S. Government appropriated $19,000.

N. C., Burlington—Post Office—James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Aug. 11.

Tenn., Nashville—Post Office and Custom House—James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Aug. 28 for extending and remodeling. Noted Apr. 20. (See adv.)

Ky., Louisville—Hull and Derrick—U. S. Engineer Office receiving bids July 29, dredge "Casey." (See adv.)

Ohio, Newark—Post Office—James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving Aug. 16. Noted May 11.

Kan., Eldorado—Post Office—U. S. Government appropriated $60,000 for post office.

Mont., Browning—Canal Work—U. S. Reclamation Service receiving bids July 31. (See adv.)

Utah, Springfield—Buildings—Comr. of Fisheries, Dept. Commerce, Washington, D. C., receiving bids July 28, at Fisheries Station, Springville.

Calif., Vallejo—Bucket Dredge—F. R. Harris, Ch. Bureau of Yards and Docks, Navy Dept., Washington, receiving bids Aug. 12 gravity swing, 1 ton, Navy Yard, Mare Island. Noted July 6.

Alaska—Alaska Engineering Commission plans to let contracts for stations for railway from Fairbanks to coast. W. A. Defoe, Supt. Constr. Noted Oct. 22.

Panama—Miscellaneous Supplies—Maj. E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids July 20.

Bids In and Contracts Awarded

Conn., Putnam—Post Office—Government rejected bids. Noted June 29.

Penn., Pittsburgh—Buildings—U. S. Engineer Office received low bid 2 lockkeepers' houses Dam No. 1 from D. A. File & Co., 201 Fitzsimons Bldg., $5,998 each. Noted June 1.

Md., Baltimore—Dredging—Government received lowest bid dredging Elk and Little Elk Rivers from Maryland Dredging and Contracting Co., 1515 Fidelity Bldg., 27c. cu.yd. Noted June 1.

D. C., Washington—Water Meters—Government let contract to WORTHINGTON PUMP AND MACHINERY CORPORATION, 115 Broadway, New York, $6.75 each. Noted July 6.

Miss., Oxford—Heating, Etc.—U. S. Government let contract, in Oxford post office, to WILLIAM WILBY, Selma, Ala. About $7,982.

Ohio, Lorain—Cement—Lighthouse Inspector let contract to LEHIGH PORTLAND CEMENT CO., Allentown, Penn., $1.87 bbl. Noted May 11.

Ill., Chicago—Breakwater—Government let contract repairing superstructure to CHICAGO GENERAL CONSTRUCTION CO., Chicago, $8,527.

Iowa, Grinnell—Post Office—Government let contract to C. WEITZ SONS CO., Des Moines, $60,500. Noted June 1 and July 6.

Kan., Salina—Repairs—U S. Government let contract repairing approaches postoffice to GEORGE A. SHAUL, Seneca. About $4,699.

S. D., Redfield—Post Office—Government let contract to C. WEITZ SONS CO., Des Moines, $59,780. Noted May 25 and July 6.

Mont., Malta—Structures—U. S. Reclamation Service received bids, Bowdoin Canal, Milk River Project, J. O'Connor, Malta, Schedule 1, $21,710; Security Bridge Co., Minneapolis, Schedule 2, $7,847. Noted May 25.

Tex., Galveston — Buildings — Government let contract to O. E. FISCHER BUILDING CO., Galveston, $20,554. Noted June 8.

Calif., Tiburon—Dredging—Bureau of Yards and Docks, Navy Dept., Washington, D. C., received bids, at Tiburon Naval Coal Depot (a) ordinary dredging, (b) dredging rock requiring blasting: R. A. Perry, Perry Bldg., Oakland, (a) 23c., (b) $6.80; Marshall C. Harris, 23 California St., San Francisco, (a) 30c., (b) $2.45; San Francisco Bridge Co., 14 Montgomery St., San Francisco, (a) 19.3c., (b) $5.19. Noted June 22.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. C., Hendersonville—Drainage—Bd. of Drainage Comr. receiving bids July 15 for improving Drainage Dist. No. 1. W. C. Jordan, Chn.

Ind., Cowan—Ditch—Trustees Monroe Township receiving bids July 15, George Gibson, No. 4111.

Ill., Hillview — (Official) — Drainage — Comrs. Hillview Drainage and Levee Dist. receiving bids July 27 for ditch excavation, about 220,578 cu.yd. Caldwell Engineering Co., Ayers Bank Bldg., Jacksonville, Engr. (See adv.) Noted May 11.

Wis., Racine—Drainage—Thompson, Myers & Kearney, First National Bank Bldg., receiving bids July 24 for Root River Drainage Dist.

Iowa, Nevada — (Official) — Drainage—County receiving bids July 22 for draining highways in northern Sherman Township and southern Lincoln Township, Highway Drainage Dist. No. 74. About $55,000. S. Steigemals, Nevada, County Engr. Noted June 29.

Minn., Ada—Ditch—County receiving bids July 18, No. 38. D. E. Fulton, Ada, County Audr. About $4,650.

Minn., Morris—Ditch—County receiving bids July 25, No. 22, about $8,318. C. R. Wollthan, Morris, County Audr.

Minn., Morris—Ditch—Stevens County receiving bids July 25, No. 21, about $21,962. C. R. Wollthan, Morris, County Audr.

Minn., St. Cloud—Ditch—County receiving bids July 21, No. 27. About $21,692. N. Thomey, County Audr.

Minn., Willmar—Ditch—County receiving bids July 25 for widening and deepening Ditch No. 10. About $15,144. S. Nelson, Willmar, County Audr.

Tex., Dallas—Drainage—Comrs. Dallas County Court plan drainage and levee district along west bank of Trinity River at Five-Mile Creek. About $100,000.

Calif., Bridgeport — Irrigation — E. H. Dodge, San Francisco, applied to State Water Com. to appropriate water of Lee Vining Creek to irrigate 50,000 acres. About $200,000.

Calif., Pasadena—Irrigation Ivanpaugh Valley Improvement Co. applied to State Water Com. to appropriate waters of Cliff and Boulder Cañon Creeks in San Bernardino County to Dey Lake in Ivanpaugh Valley to irrigate 8,000 acres. About $10,000.

Calif., Visalia—Irrigation—A. D. Schindler, San Francisco, applied to State Water Comn. to appropriate water from Kings, Tulare and Keweah Rivers to irrigate Tulare Lake Basin. Tulare Irrigation Dist. to be formed.

Bids In and Contracts Awarded

Mass., Cuttyhunk—Dredging—Harbor and Land Comn. let contract, Cuttyhunk Harbor, 38,000 cu.yd., to J. S. PACKARD DREDGING CO., Providence, $0.2997 per cu.yd. Noted June 22.

Mass., Duxbury—Dredging—Harbor and Land Comrs. let contract, Duxbury Bay, to BAY STATE DREDGING AND CONSTRUCTION CO., 247 Atlantic Ave., Boston.

Mass., Plymouth—Dredging—Harbor and Land Commission let contract, Plymouth Harbor, 50,000 cu.yd., to BOSTON DREDGING CO., 40 Central St., Boston, $0.249 yd. Noted July 6.

Mass., Wareham—Dredging—Harbor and Land Comrs. let contract, Wareham River, 135,000 cu.yd., to CHARLES M. COLE, 80 Belmont St., Fall River, 31c. cu.yd. Noted June 29.

N. Y., Albany—Barge Canal Work—Contract for substructure, superstructure and approaches of Freeman's Bridge over Mohawk River near Schenectady at Barge Canal Center Line Station 1198-93, Contract No. 129 let to FOUNDATION CO., 233 Broadway, New York, $87,390. Noted June 8.

N. Y., Albany—Barge Canal Work—Low bids received June 27 for improving Cayuga and Seneca Canal and New York State Canals, Contract No. 1-A, Cayuga and Seneca Canal, Sect. 1 from Sherman-Stalter Co., Lyons, $25,831; E. Brown Baker, Herkimer, $27,946; Larkin & Sangster, Buffalo, $28,719. Noted June 1.

N. Y., Albany—Barge Canal Work—Contracts improving Cayuga and Seneca Canal and New York State Canals let to JAMES STEWART & CO., INC., 39 Church St., New York, $108,540, Contract No. 72-B, Champlain Canal, Sect. 1 and R. H. MURRAY, Rochester, $110,689, Contract No. 59-A, Erie Canal, Sect. No. 9. Noted June 1.

Ga., Monroe—Drainage—Bd. Drainage Comrs. let contract draining Alcovy River to KARR & MOORE, Salisbury, N. C.

Mich., Ontonagon—Dredging—Contract let to ZENITH DREDGING CO., Duluth, $19,875, Ontonagon Harbor.

Iowa, Garner—Ditches—County let contracts, No. 82 to A. NELSON and No. 64 to M. JENSON.

Iowa, Garner—Ditch—County let contract tile for Ditch No. 76 to MAMMOUTH CLAY MANUFACTURING CO. Noted Feb. 17.

Iowa, Red Oak—Drainage—Montgomery County let contract ditch along East Nodaway River to O. T. HERRICK, Des Moines.

Minn., Duluth—Ditch—County Comrs. let contract Carlton-St. Louis Ditch No. 2 to W. J. GLEASON CO., Aitkin, $50,484.

Minn., Fairmont—Ditch—Contract Ditch No. 65, Jay Township, let to W. C. MARKLAND & CO., Fairmont, $9,964.

Minn., Jackson—Ditch—County let contract to REDDING & SMAGGE, $47,000.

Minn., Mankato—Ditch—County let contract, No. 43, to P. PAULSON, Carroll, Iowa, $11,992.

Minn., Morris—Ditch—County let contract, No. 23, to CHARLES TURNELL, $15,000. Noted June 8.

Minn., Olivia—Ditch—Contracts Bird Island Ditch let to BISBALLE & SANDEN, Florence, $114,250 for tile, NATIONAL CONSTRUCTION CO., $18,000 open work.

Minn., Worthington—Ditch—County let contract Ditch No. 2 to N. L. NIELSON, Fulda, $6,965. Noted Dec. 30.

Mo., Kansas City—Levee—Supervs. Birmingham Drainage Dist. let contract 10.78 mi. of levee to R. H. and G. A. McWILLIAMS, 332 South Michigan Ave., Chicago. Noted June 15.

Tex., Balmorhea—(Official)—Irrigation—Reeves County Irrigation Dist. No. 1 let contract diversion dam and canal, 2 earth storage dams with outlet works and canal to A. D. JAMISON, Grand Falls. Noted June 1.

Wash., North Yakima—Ditch—County Comrs. let contract open ditch in Sub-Dist. No. 5 and Drainage Improvement Dist. No. 3 to H. PEDERSON, $10,430.

MISCELLANEOUS

Proposed Work

Mass., Lynn—Improving Creek—City plans to change bed and culvert Strawberry Brook, 1,500-ft. About $13,000.

N. Y., Albany—(Official)—Metal Furniture and Equipment—Trustees of Pub. Bldgs., Executive Chamber, receiving bids July 18, state house. L. F. Pilcher, State Arch. (See adv.)

N. Y., Buffalo—Market—Parke, Hall & Co. interested in 120x150-ft. market at 499 Elmwood Ave.

N. Y., Elmira—(Official)—Structural Steel Work—H. Melville, Pres. Bd. of Mgrs., State Reformatory, receiving bids July 15, shop building No. 4. L. F. Pilcher, Albany, Arch. (See adv. July 6 issue). Noted June 1.

N. Y., Hornell—Flood Protection — City voted $13,102 bonds.

N. Y., New York—(Borough of Queens)—Wall and Fence—City plans, Flushing Ave. J. T. Fetherston, Comr. Dept. of St. Cleaning of borough.

N. J., Atlantic City—(Official)—Cast Iron Pipe and Castings—Bd. Comrs., City Hall, receiving bids July 20. J. B. Thompson, Dir. Parks and Pub. Property. (See adv.)

N. J., Lodi—(Official)—Fire Apparatus—Fire and Water Com. of Mayor and City Council, Council Chamber, Municipal Bldg., 47 Main St., receiving bids July 21. J. R. MacCulloch, 278 Main St., Chn. (See adv.)

N. J., Trenton—Fire House—City plans Brunswick Ave. About $40,000.

Penn., Dunmore—Retaining Wall—City plans, Electric St. About $5,000. J. R. Murphy, Miller Bldg., Engr.

Md., Hagerstown—Park—City sold $40,000 bonds. J. B. Ferguson, City Engr.

Va., Quantico—Dry Dock—International Steel Plate and Shipbuilding Co. plans. About $500,000. T. J. Shea, 1022 Munsey Bldg., Washington, D. C., Pres.

Ohio, Cincinnati—Bathhouse—Bd. of Pub. Wks. plans remodeling bathhouse on Cutter St. A. C. Kuball, 519 Main St., Arch.

Ohio, Cleveland—Elimination of Grade Crossing—Pennsylvania R. R. plans Central and Holton St. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Ohio, Fremont—Playgrounds—City votes Aug. 8 on $20,000 bonds. C. A. Hochenedel, City Engr.

Ohio, Lima—Fire Stations—City soon receives bids. J. I. Heffner, City Clk. Noted Sept. 23.

Ohio, West Park—Fire Station—City plans. About $35,00.

Ind., Shelbyville—Fire Station—City receiving bids July 18, 2-story. About $12,000. W. S. Jones, City Clk.

Mich., Muskegon—Pier—City plans. Paul Grimes, City Engr.

Mich., Niles—Artificial Lake—Francis J. Plyn, Pres. Kawneer Manufacturing Co., interested in lake to be made by dredging and pumping.

Ill., Springfield—Park Improvements — City plans improving park and boulevards leading thereto. About $100,000.

Wis., Madison—Retaining Walls and Drive—City plans, along shore of Lake Monona and Mendota. O. S. Norsman, City Clk.

Iowa, Onawa—Straightening River—County plans straightening Soldier River. About $90,000.

Kan., Clay Center—Channel—A. L. Williamson plans to spend $25,000 to turn Republican River back into old channel.

Kan., Wichita—Flood Protection—City made plans to prevent floods from canal and Little River. B. Wells, City Engr.

Neb., Lincoln—Roller—City will purchase 5-ton steam-driven tandem asphalt roller. A. Dobson, City Engr.

Ark., Marianna—Playground—Marianna Playground Association plans playground to include swimming pool. R. L. Mixon, Pres.

Tex., Sherman—Parks—City defeated $10,000 bond issue. Noted June 15.

Calif., Bakersfield—Park—City defeated $150,000 bond issue. Noted May 11.

Calif., Fresno—Levees—P. B. Engh, Engr., estimates cost of levees on Stimson-Burrell Tract, 25,000 acres, at $200,000.

Ont., Renfrew—Rink—Renfrew Curling Club plans, about $7,000. R. D. Scott, Secy.

Bids In and Contracts Awarded

Mass., Dartmouth—Breakwater—Harbor and Land Commission let contract 8,500 tons stone for breakwater at Salters Point to JOHN R. BURKE, 78 Devonshire St., Boston, $1.78 per ton. Noted July 6.

Mass., North Adams—Retaining Wall—Arnold Print Works let contract retaining wall to H. C. WOOD CO., 191 Ashland St.

Mass., West Springfield—Dike—Eastern States Agricultural and Industrial Exposition let contract, Connecticut River, to D. O'CONNELL SONS CO., Holyoke.

Conn., Windsor—Elimination of Grade Crossing—State Highway Comrs. let contract to HYDE PARK CONSTRUCTION CO., 164 Federal St., Boston, Mass., $39,178. Noted June 29.

N. Y., New York—(Borough of Bronx)—(Official)—Elevated Work—Public Service Commission for First District let contract 180th St. Yard of Route No. 18, part White Plains Road Rapid Transit R.R. to THOMAS J. BUCKLEY CONSTRUCTION CO., 303 5th Ave., Manhattan, $269,222. Noted July 6.

N. Y., New York—(Borough of Queens)—Field House—Adelphia Club, Lawn Ave., Rockaway Beach, let contract athletic field and field house to BARNETT CONSTRUCTION CO., 150 Nassau St. About $20,000.

N. Y., Rochester—Shipping Platform—North East Electric Co. let contract to G. KICHER, Clifford St. About $18,000.

N. J., Harrison—Platforms—Hyatt Roller Bearing Co. let contract 2 platforms, Middlesex St., to AMERICAN CONCRETE STEEL CO., Essex Bldg., Newark. About $15,000.

Va., Richmond—Creek Improvements—City let contract 5 sections of Shockoe Creek to ELKINS & TUFTS, $61,975, A. W. MAYNARD, $39,404, OCEAN CONSTRUCTION CO., $39,029, L. HANKINS, $37,621, VAN DOREN BROS., $55,399. Noted June 1.

Del., Wilmington—Jetty—Contract let to C. R. SIMPSON, New York, $8,400, repairing jetty at Broadkill River.

Miss., Vicksburg—Levee—Contract levee work at Arkansas River let to W. J. MASSEY and M. WOLCHANSKY, Red River, $60,750.

La., New Orleans—Engine House—City let contract, 2-story, Napoleon Ave. and Pitt St., to G. E. and E. E. REIMANN, 618 South Gayoso St. About $10,575. Noted Jan. 13.

La., New Orleans—Engine House—J. W. Lennex, New Orleans, $12,440 lowest bidder, 2-story, Bouny and Beleronde St. W. J. Hardee, City Clk. Noted Jan. 13.

Ohio, Cleveland—(East Cleveland)—Fire Station—Rowe & Giles, Chagrin Falls, $14,292 lowest bidder, Hayden Ave. M. J. Herbert, Dir. Pub. Wks. Noted May 18.

Ind., Indianapolis—Flood Gates—Bd. of Pub. Wks. received bids for flood gates along White River and Fall Creek from A. Bruner Co., $9,250 and J. Vogel, $9,992.

Ind., Indianapolis—Retaining Wall—County let contract to A. F. HOOTON & SON, 3205 Phipps St., and VOLPP & FRITZ, 445 Sanders St.

Ind., Rockport—Levee—Comrs. Spencer County let contract to D. TITUS, Grand View.

Mich., Keweenaw Bay—Breakwater—Contract let to ENGLAND TOWING CO., Duluth, $19,815, repairing.

Ill., Chicago—Riprap Slopes—Palas and Worth Townships let contract to GREEN & SONS CO., 32 South Michigan Ave. About $425,000.

Ont., Ottawa—Subway—Bd. of Control let contract, Bank St., to UNION CONSTRUCTION CO., Ottawa, $11,046.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Maine, Skowhegan—Reformatory—State receiving bids July 15, 2-story, 30x149-ft. E. F. Fassett, 95 Exchange St., Portland, Arch.

Vt., Bennington—Gymnasium—Y. M. C. A. making plans, 3-story. L. E. Jallade, 37 Liberty St., New York, Arch.

Mass., Brockton—School—School Bd. made plans for addition, Winthrop School, about $90,000. F. I. Cooper, 33 Cornhill St., Boston, Arch. Noted June 15.

Conn., Bridgeport—Society Building—Sons of St. George making plans, 4-story. E. G. Southey, 983 Broad St., Arch.

N. Y., Mt. Kisco—School—Bd. Education receiving bids July 17. Addition. About $40,000. F. J. Carpenter, Clk. Noted May 4.

N. Y., New York—(Borough of Manhattan)—Bethlehem Day Nursery plans 5-story, 23x83-ft. building. F. P. Kelley, 437 5th Ave., Arch.

N. J., Jersey City—(Official)—Hospital Buildings—Bd. of Comrs. of Jersey City receiving bids July 25, Baldwin Ave. and Montgomery St. M. I. Fagen, City Clk. (See adv.)

N. J., Montclair—(Official)—School—Bd. Education receiving bids July 25 for additions and alterations to Nishuane School. L. L. Jackson, 22 Valley Rd., Secy. Starrett & Van Vleck, 8 West 40th St., New York, Arch. Noted Mar. 30. (See adv.)

N. J., Montclair—(Official)—School—Bd. Education receiving bids July 25 for additions and alterations to Watchung School. L. L. Jackson, 22 Valley Rd., Secy. Starrett & Van Vleck, 8 West 40th St., New York, Arch. Noted Mar. 30. (See adv.)

Penn., York—Knights of Malta plan building. About $60,000. W. J. Raffensberger, interested.

Md., Guilford—Loyola College plans buildings. Maginnis & Walsh, Boston, Mass., Arch.

Va., Covington—Bank—National Bank of Covington making plans, 2-story, 40x64-ft. About $40,000. A. C. Bossom, 366 5th Ave., New York, Arch.

N. C., Asheville—High School—F. L. Conder, Secy.-Treas., receiving bids Aug. 1. W. H. Lord, Asheville, Arch. Noted Apr. 20.

La., Thibodaux—Church—St. Joseph Church plans rebuilding. About $100,000. L. P. Caillouset, Chn. Bldg. Com.

Tenn., Memphis—Hotel—F. Pendergrast, 1562 Union Ave., receiving bids about July 15, 6-story. About $100,000. Hanker & Cairns, Scimitar Bldg., Arch. Noted June 8.

Ky., Louisville—Convent—Convent for Ursuline Sisters making plans, 3-story. About $135,000. F. Erhart, 409 Norton Bldg., Arch.

Ohio, Cleveland—Library—Bd. of Pub. Library receiving bids Aug. 1 for $2,000,000 bonds. C. Lorenz, Secy. Bd. of Pub. Library. Noted Dec. 2.

Ohio, Cleveland—Hotel—Del Prado Hotel Co., Euclid Ave. and East 40th St., plans. About $200,000. W. McClure, Pres.

Ohio, Cleveland—Church—Hough Avenue Congregational Church plans addition. About $40,000. E. L. Howe, Chn.

Ohio, Cleveland—High School—Roman Catholic Diocese of Cleveland, Superior and East 9th St. plans, 11105 Euclid Ave. J. P. Farrelly, Bishop.

Ohio, Dayton—Bank—Mutual Home and Savings Association plans, 10-story. About $200,000. Schenck & Williams, 591 Arcade Bldg., Arch. S. R. Jones, 26 North Main St., Pres.

Ohio, Defiance—School—City votes Aug. 8 on $200,000 bonds.

Ohio, Girard—Schools—Bd. of Education receiving bids July 21 for two. G. M. Bartholomew, Clk. Noted Mar. 2 and May 11.

Ohio, Hilliards—Grade and High School—Norwich Township receiving bids about Aug. 1. About $60,000. F. L. Packard, 1212 Hayden Bldg., Columbus, Arch. Noted June 22.

Ind., Atlanta—High School—G. Walters, Trus. Bd Education, receiving bids July 17, 2-story. H L. Bass & Co., 801 Hume Mansur Bldg., Indianapolis, Ind., Arch.

Mich., Albion—School—Bd. of Education making plans, 2-story, 60x100-ft. About $50,000. E. W. Arnold, 498 Main St., Battle Creek. Noted May 25.

Ill., Chicago—(Austin)—Church—Resurrection Congregation, Jackson Blvd. and Leamington St., made plans. About $100,000. M. J. Sullivan, Pastor.

Iowa, Geneva—School—Consolidated Bd. Education receiving bids July 22, 2-story, about $40,000. R. A. Waddington, Secy. A. J. Gage, 606 Youngerman Bldg., Des Moines, Arch.

Iowa, Iowa City—Schools—City votes July 25 on $250,000 bonds. Noted June 29.

Iowa, Jesup—School—Consolidated School Dist. lets contract in August. About $75,000. H. E. Netcott, Independence, Arch. Noted June 15 and 29.

Iowa, Orange City—Bank—Orange City National Bank making plans, about $50,000. Beuttler & Arnold, 609 Security Bldg., Sioux City, Arch.

Iowa, Oskaloosa—Oskaloosa College making plans buildings. About $150,000. A. T. Simmons, First National Bank Bldg., Bloomington, Ill., Arch.

Iowa, Red Oak—High School—Bd. of Education receiving bids July 24. Trunk & Gordon, St. Joseph, Mo., Arch. W. W. Montgomery, Secy. Noted June 22.

Iowa, Sioux City—Church—First Congregational Congregation soon receives bids, 13th and Nebraska St., about $75,000. W. L. Steele, United Bank Bldg., Arch. Noted Apr. 6.

Iowa, Sioux City—Office—W. Gordon, 230 Davidson Bldg., made preliminary plans, 2-story, 7th and Pierce St. About $50,000. F. E. Colby & Son, 510 Davidson Bldg., Arch. Noted Mar. 16.

Minn., Bemidji—Memidji Lodge No. 1052, B. P. O. E., receiving bids July 18 for building. About $40,000. Noted Jan. 20.

Minn., Hibbing—Courthouse—City receiving bids July 18. About $85,000. Noted Apr. 20.

Minn., Nevis—Sanitarium—P. Roy, Grand Opera House Blk., St. Paul, plans.

Minn., Silver Creek—School—City defeated bond issue.

Minn., Virginia—Schools—School Bd. votes July 15 on $486,000 bonds. P. P. Colgrove, Supt. Noted June 15.

Kan., Abilene—High School—School Bd. plans bond issue.

Kan., Iola—High School—City making plans, 3-story, 90x160-ft. About $85,000. T. W. Williamson & Co., 418 Central National Bank Bldg., Topeka, Arch. Noted June 8.

Kan., Smith Center—High School—Bd. of Education receiving bids about Aug. 1, 2-story rein.-con. About $45,000. T. W. Williamson & Co., 418 Central National Bank Bldg., Topeka, Arch. Noted June 1.

Mont., Glendive—Gymnasium—Bd. of Trustees, Dawson County High School, plans.

Mont., Livingston—School—City votes Aug. 29 on $45,000 bonds.

Mo., Independence—High School—Bd. of Education receiving bids July 19 for 3-story, 90x148-ft. rein.-con. About $75,000. J. W. Davis, Secy. Noted May 25.

Mo., Springfield—Y. W. C. A. receiving bids about July 15 for 2-story, 50x150-ft. building. About $50,000. O. L. Brettner, Holland Bldg., Arch. Noted May 11.

Ark., Greenwood—Courthouse—Sebastian County receiving bids July 19, 2-story, 65x98-ft. About $60,000. A. Klingensmith, Ft. Smith, Arch. Noted June 8.

Ark., Hot Springs—Hotel—Harry Dougherty plans to rebuild St. Charles Hotel.

Ark., Newport—Hotel—Wolff Goldman Realty Co. plans to rebuild. Mann & Stern, Gazette Bldg., Little Rock, Arch.

Okla., Ada—School—City voted $90,000 bonds. Noted June 22.

Okla., Ardmore—Theater—Bailey & Bailey, Arch., Oklahoma City, making plans.

Okla., Crescent—Hotel—C. A. Cuff, Omaha, Neb., plans.

Okla., Waynoka—City Hall—City plans.

Utah, Parowan—(Official)—School—Bd. of Education receiving bids about July 20. About $40,000. Cannon & Fetzen, Salt Lake City, Arch. Noted June 15.

Ore., Portland—Order of Moose plans rein.-con. building. About $75,000. Houghtaling & Dougan, Henry Bldg., Arch.

Calif., Los Banos—School—City voted $63,000 bonds.

Calif., Oakland—Hall of Records—Board of Supervisors of Alameda County receiving bids Aug. 7 for annex. G. E. Gross, Oakland, Clk.

Calif., Santa Barbara—Church—Presbyterian Congregation plans. About $100,000. R. F. Saulter, Arch.

Calif., Santa Barbara—High School—Bd. of Education plans election to vote on $250,000 bonds. E. C. Roeder, Secy.

Calif., Visalia—School—City making plans. About $46,000. Swartz & Swartz, Arch. Noted May 11.

Calif., Woodland—Court House—Yolo County voted $200,000 bonds. Address County Clerk, Woodland. Noted Oct. 28.

Que., Marieville—Church—Parish of Ste. Marie de Bonair plans. About $150,000. Viau & Venne, 76 St. Gabriel St., Montreal, Arch.

Que., Montreal—Deaf and Dumb Institute plans building on St. Lawrence Blvd. About $280,000. Gauthier & Dacust, 180 St. James St., Arch.

Que., Quebec—Hospital—Anti-Tuberculosis League making plans. About $100,000. Tanguay & Legon, 10 d'Aguillon St., Arch. Noted Apr. 20.

Bids In and Contracts Awarded

Mass., Pittsfield—Church and School—St. Mary's of Morning Star Parish let contract to E. F. ROSCOE, Pittsfield. About $60,000. Noted Apr. 20.

Mass., Somerville—High School—City received bids; J. E. Locatelli Co., 46 Cornhill St., Boston, $69,967; C. S. Cunningham Construction Co., 101 Tremont St., Boston, $71,458; C. S. Cunningham & Sons Co., 7 Water St., Boston, $72,980. Noted May 4.

N. Y., Chautauqua—High and Grade School—Bd. of Education let contract addition to E. J. BAILEY, Brocton. About $50,000.

N. Y., Clinton—Sigma Phi Fraternity, Hamilton College, let contract 2-story, 60x60-ft. building to G. HOPP, 1022 Seymour Ave., Rochester. About $40,000. Noted Feb. 24.

N. Y., Croghan—School—St. Stephens Church let contract to C. DELINE, Otis Bldg., Watertown, $50,000.

N. Y., Ithaca—Theatre—Crescent Theatre Co. let contract to PULFORD & DEMPSE, 157 Falck St., Elmira, about $75,000.

N. Y., Johnson—Hospital—C. Wilson let contract, 2-story addition, to W. KNOELLER, 4 Main St., Johnson City.

N. Y., Morris Park—Church—Congregation of St. Joseph Benedict let contract to F. DROESCH, 1466 Woodhaven Ave., Woodhaven, about $70,000. Noted Feb. 24.

N. J., East Orange—School—Bd. Education let contract addition to Elmwood School to DE RISO BROS., 3d St., Union, about $100,000. Noted July 6.

N. J., Pompton Lakes—School—Bd. Education let contract to A. W. CRONE & SON, 500 Central Ave., Jersey City, about $40,000. Noted May 25.

N. J., West Hoboken—School—St. Michael's Monastery let contract to G. CRANWELL & SON, Union St. Noted June 1.

Penn., Columbia—School—City let contract to G. W. PAULES. About $60,000.

Penn., Ebensburg—Courthouse—City let contract addition to W. H. FISSELL & CO., 1328 Broadway, New York, $394,882. Noted Apr. 6.

Penn., Pittsburgh—Labor Lyceum—Labor Lyceum Co. let contract addition and alterations to S. POLLACK, Braddock. About $50,000.

Penn., Scranton—Church—Holy Cross Congregation let contract, 1-story, 64x136-ft., to BEILMAN & SON, 232 Ash St. About $60,000.

Penn., Wilkes-Barre—School—Bd. of Education let contract, 3-story, 84x305-ft., to ASTON BROS., 296 Parrish St. About $70,000. Noted Feb. 3.

Penn., Wilkes-Barre—Home—Wilkes-Barre City Hospital let contract to J. CURTIS CO., Hickory and Hill St., about $65,000.

Penn., York—Bank—City let contract to L. MENOUGH & SON, York. About $50,000. Noted Mar. 16.

W. Va., Warwood—High and Grade School—Richland District let contract, 3-story, 90x120-ft. to E. T. BURTON, Moundsville. About $60,000. Noted May 18.

Miss., Gulfport—(Official)—Legislature let contract building at Gulfport Mississippi Centennial to DOBBS & WETMORE, Meridian. Noted Mar. 2.

Ohio, Akron—Bank—Depositors Savings Bank let contract, 3-story, 35x165-ft., to PORTER BROS. About $150,000.

Ohio, Canton—Freight House—Wheeling & Lake Erie R.R. let contract to CURRIE CONSTRUCTION CO., New York, $100,000. Noted Apr. 27.

Ohio, Grand Rapids—(Official)—School—Bd. Education let contract to J. I. BARNES, Logansport, Ind. Noted June 29.

Ohio, Portsmouth—School—Holy Redeemer Church let contract, 2-story, 76x99-ft., to G. N. BAKER, Builders and Traders Exchange, Cincinnati. About $40,000. Noted June 1.

Ohio, Tiltonville—School—Bd. Education let contract to F. BEHAN, Youngstown, about $43,406. Noted May 25.

Ind., Indianapolis—Hotel—Powhatan Realty Co. let contract, 6-story, to LATHAM & WALTERS, State Life Bldg. About $60,000.

Ind., La Fayette—Bank—Farmers & Traders Bank let contract, 3-story, 40x92-ft., to J. W. REED, Hammond. About $75,000.

Mich., Fowler—Church—St. Mary's Church let contract to G. BRAY & SON, Jackson, about $50,000.

Mich., Lansing—Bank and Office Building—Lansing State Bank let contract, 8-story, to RICKMAN CONSTRUCTION CO., Owosso.

Ill., Aurora—Church—St. Michaels Roumanian Congregation let contract to J. E. OLSON, 111 West Washington St., Chicago, about $45,000. Noted June 1.

Wis., Marshfield—Church and Auditorium—Sacred Heart Congregation let contract to HUTTER CONSTRUCTION CO., Fond du Lac. About $50,000. Noted Mar. 23.

Wis., Platteville—Agricultural and Physical Training Building—Bd. Normal Regents, Madison, rejected bids. About $66,000. Noted Mar. 16.

Iowa, Atlantic—Hotel—M. C. Cardio let contract, 4-story, 50x100-ft., 2d and Chustnut St., to REYNOLDS & McGINN, Omaha. Noted May 25.

Iowa, Davenport—Armory—Battery B let contract to A. A. ARNOULD, 58 Davenport Savings Bank Bldg. About $50,000.

Iowa, Des Moines—School—Bd. Education let contract to GETCHELL & SUGARMAN, about $50,000. Noted June 8.

Iowa, Rockwell City—Iowa Industrial Reformatory let contract buildings to BAILEY-MARSH CO., 25 Metropolitan Life Bldg., Minneapolis, Minn., $97,800. Noted July 6.

Minn., Proctor—High School—Bd. Education let contract to FARNAM BROS., Plymouth Bldg., Minneapolis, about $55,000. Noted June 8.

Minn., Staples—School—City let contract to DESMARAIS BROS., $58,240. Noted June 8.

Neb., Hartington—Hotel—Contract let, 3-story, to BANKERS REALTY CO., Bee Bldg., Omaha. About $40,000.

Neb., Havelock—High School—Bd. Education let contract to H. F. JONES, Cedar Rapids, Iowa, $60,675. Noted June 15.

Neb., Omaha—University of Omaha let contract 3-story building to PETER KIEWIT & SONS, 2567 Marcy St. About $50,000.

Mo., Kansas City—Library—Bd. Education let contract to SMITH & WOODLING, Reliance Bldg., $167,114. Noted June 29.

Mo., Webb City—Hospital—Jasper County let contract to SMITH & WOODLING, 502 Reliance Bldg., Kansas City, $65,156. Noted June 8.

Ark., Jonesboro—First Baptist Church let contract building to E. F. DOWLING, Memphis, Tenn. About $60,000. Noted June 22.

Tex., Dallas—Wells, Fargo & Co. let contract express building to S. S. SELF, Dallas. About $100,000.

Tex., San Antonio—School—School Bd. let contract to WRIGHT & SANDERS, $53,948.

Okla., Durant—Bank—Durant National Bank let contract to H. E. McCART, Durant, about $50,000.

Ore., Wasco—School—City let contract to A. E. SYKES, Portland.

Calif., San Francisco—Hospital—Trustees Leland Stanford, Jr., University let contract, 5-story, Clay and Webster St., to GEORGE WAGNER, Hearst Bldg. About $200,000.

Que., Montreal—Church—St. Jean Berchman's Congregation let contract to THOMAS BELANGER, Valleyfield, $200,000. Noted Oct. 21.

SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until July 25, 1916.

Alterations to Nishuane School

Montclair, N. J.

Sealed proposals will be received by the Secretary of the Board of Education, Town of Montclair, State of New Jersey, for alterations and additions to the Nishuane School building, now known as the Cedar Avenue School, comprising general construction, plumbing, heating and ventilating, and electrical work. Separate bids will be received for all of the above.

All bids must be sealed and marked on the outside of the envelope, "Bids for alterations to the Nishuane School," and must be in the hands of the Secretary of the Board of Education on or before 8 P.M., Tuesday, July 25, 1916, at the Secretary's office, 22 Valley Road, Montclair N. J., at which time and place the Board of Education will meet and open said bids.

The right is reserved by the Board of Education to reject any or all proposals,. or to reject the proposal of any bidder who cannot produce satisfactory evidence of having performed work of similar character and magnitude.

Each proposal must be accompanied by certified check drawn upon a State or National bank, made payable to the Board of Education, Town of Montclair.

Checks accompanying bids shall be drawn for 5% of the amount of the bid. The check must be enclosed in the envelope containing the bid.

The check of successful bidder will be forfeited if said bidder shall fail, within ten days after award of contract, to execute the formal contract and deliver the bond herein required.

Check of the successful bidder will be returned after the execution of the contract and furnishing of bond.

The checks deposited by unsuccessful bidders will be returned after the award of the contract.

The successful bidder will be required to execute good and sufficient bond of indemnity satisfactory to the Board of Education as security for the faithful performance of the contract .

Drawings, specifications and full information may be procured from the architects, Starrett & Van Vleck, 8 West 40th Street, New York City. Plans may be seen at the offices of the Board of Education, 22 Valley Road, Montclair, N. J.

Each bidder before receiving plans and specifications will be required to file a check to the amount of $10 with Starrett & Van Vleck, which will be returned to the bidder when plans and specifications have been returned to the architects.

BOARD OF EDUCATION,
Town of Montclair, New Jersey.
LAMBERT L. JACKSON, Secretary.
July 7, 1916.

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U. S. ENGINEER OFFICE, Louisville, Ky.—Sealed proposals for a steel hull and derrick for Dredge "Casey" will be received here until 12 noon, central time, July 29, 1916, and then opened. Information on application.

Bids received until July 20, 1916.

Storage House

Peekskill, N. Y.

Sealed proposals for the construction of a concrete storage house at State Camp of Instruction in County of Westchester, N. Y., and vicinity of Peekskill, N. Y., will be received by the State Board of Armory Commissioners, 158 State Street, Albany, N. Y., until three o'clock P.M. of Thursday, July 20th, 1916, and at such place and time publicly opened and read.

Contract willl be awarded for the entire work. The proposals must be made upon the blank forms and enclosed in the envelopes, both of which are provided by the State; the envelopes to be sealed and endorsed with the name of the bidder and with the words "Storage House." Each proposal must be accompanied by a certified check in the sum of 5 per centum of the amount of the proposal.

Copies of the specification and drawings for the proposed work may be perused at the above-described office of State Board of Armory Commissioners, Albany, or at the aforesaid Camp of Instruction, which may be reached from Peekskill by means of a ferry.

Informal bids will not be considered and the right is hereby reserved to reject any or all bids.

STATE ARMORY COMMISSION,
FRANKLIN W. WARD, Secretary,
158 State Street, Albany, N. Y.

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Bids received until July 25, 1916.

Hospital Buildings

Jersey City, N. J.

Sealed proposals will be received by the Board of Commissioners of Jersey City, N. J., in the Assembly Chamber, City Hall, Jersey City, Tuesday, July 25, 1916, at 2 P.M., for the Erection of New Hospital Buildings at Baldwin Avenue and Montgomery Street, Jersey City, N. J., in accordance with plans and specifications on file in the office of the City Clerk.

Copies of plans and specifications and blank forms for proposals must be obtained at the office of the Architect, John T. Rowland, Jr., 100 Sip Avenue, Jersey City, N. J.

Each proposal, accompanied by the written agreement of a qualified surety company as stated in the said specifications, must be enclosed in a sealed envelope, endorsed: "Proposal for (work stated) erection of New Hospital Buildings," and directed to The Board of Commissioners of Jersey City, and must be handed to the City Clerk in open meeting when called for at the time and place above specified.

The Board reserves the right to reject any or all proposals if it is considered for the best interests of the city so to do.

By order of the Board of Commissioners of Jersey City.

Dated, City Clerk's Office,
Jersey City, June 28, 1916.
MICHAEL I. FAGEN, City Clerk.

Bids received until July 25, 1916.

Alterations to Watchung School

Montclair, N. J.

Sealed proposals will be received by the Secretary of the Board of Education, Town of Montclair, State of New Jersey, for alterations and additions to the Watchung School, comprising general construction, plumbing, heating and ventilating, and electrical work. Separate bids will be received for all the above.

All bids must be sealed and marked on the outside of the envelope "Bids for alterations to the Watchung School," and must be in the hands of the Secretary of the Board of Education on or before 8 P.M., Tuesday, July 25, 1916, at the Secretary's office, 22 Valley Road, Montclair, N. J., at which time and place the Board of Education will meet and open said bids.

The right is reserved by the Board of Education to reject any or all proposals or to reject the proposal of any bidder who cannot produce satisfactory evidence of having performed work of similar character and magnitude.

Each proposal must be accompanied by certified check, drawn upon a State or National bank, made payable to the Board of Education, Town of Montclair.

Checks accompanying bids shall be drawn for 5% of the amount of the bid. The check must be enclosed in the envelope containing the bid.

The check of successful bidder will be forfeited if said bidder shall fail, within ten days after award of contract, to execute the formal contract and deliver the bond herein required.

Check of the successful bidder will be returned after the execution of the contract and furnishing of bond.

The checks deposited by unsuccessful bidders will be returned after the award of the contract.

The successful bidder will be required to execute good and sufficient bond of indemnity satisfactory to the Board of Education as security for the faithful performance of the contract.

Drawings, specifications and full information may be procured from the architects, Starrett & Van Vleck, 8 West 40th Street, New York City. Plans may be seen at the offices of the Board of Education, 22 Valley Road, Montclair, N. J.

Each bidder before receiving plans and specifications will be required to file a check to the amount of $10 with Starrett & Van Vleck, which will be returned to the bidder when plans and specifications have been returned to the architects.

BOARD OF EDUCATION,
Town of Montclair, New Jersey.
LAMBERT L. JACKSON, Secretary.
July 7, 1916.

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Excavation and Concrete Work

The Conners Bros. Co., 64 West 88th St., New York, N. Y., has 20,000 yds. of excavation and 8,000 yds. of concrete work to let.

SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until July 18, 1916.

Sewage Disposal Plant

Oxford, N. Y.

Sealed proposals for Sewage Disposal Plant at the New York State Women's Relief Corps Home, Oxford, N. Y., will be received by Mrs. Georgiana Griffith President of the Board of Managers, New York State Women's Relief Corps Home, Oxford, N. Y., until 2:30 o'clock P.M. on Tuesday, July 18th, 1916, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent. (5%) of the amount of proposal. The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent. (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specification No. 2444. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the New York State Women's Relief Corps Home, Oxford, N. Y., at the New York Office of the Department of Architecture, Room 1224 Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, Lewis F. Pilcher.

June 29, 1916.

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Bids received until July 21, 1916.

Water-Works System

East Youngstown, Ohio.

Sealed proposals for the construction of a one (1) million-gallon Filter Plant, Pumping Station, Pumps, Gas Engines, Pipe Lines, Stand Pipe, Tools and other appurtenances for the installation of a complete Water-Works System, will be received by the Board of Trustees of Public Affairs of the Village of East Youngstown, Ohio, at their office at the Municipal Building, East Youngstown, Ohio, until twelve **(12) o'clock noon,** Central Eastern Time, on the 21st day of July, 1916, and at that time will be opened and publicly read.

All bids shall be made upon the official proposal blanks attached to the instructions of bidders, specifications and form of contract and bond, which may be seen at the office of the Board in the Municipal Building at East Youngstown, Ohio, or Carl Anderson, Village Clerk, on deposit of a certified check for Twenty-five ($25.00) Dollars, which will entitle bidder to one set of plans and specifications, covering the items on which he signifies his intention to bid. Proper receipt for each such deposit will be given and the money will be refunded provided plans and specifications are returned in good condition within ten (10) days after reception of bids.

All bidders may, if they so desire, submit alternate proposals for the construction of a complete filtration plant, and in accordance with their own plans, specifications and designs. All such alternative plans, specifications and designs shall be prepared in sufficient detail to show clearly the reasons why such alternate proposal, designs, plans and specifications would be as satisfactory and effective as those called for by the plans and specifications hereinbefore referred to.

Each proposal shall be accompanied by a certified check made payable to the order of G. N. Reed, Treasurer of the Village of East Youngstown, Ohio, for not less than three per cent. (3%) of the total amount of the bid, but in no case shall this check be less than One Hundred Dollars ($100.00). This check is to be conditioned that if bid is accepted, a contract will be entered into and performance of same secured within ten (10) days after notification of acceptance of the bid. In case bid is rejected, or contract entered into, check will be returned. Successful bidders, on amounts in excess of Five Hundred ($500.00) Dollars will be required to furnish a corporate surety bond in an acceptable Surety Company in the full amount of the contract.

The Village, by its Board of Trustees of Public Affairs, reserves the right to award the contract as a whole; or in separate items as set forth in the specifications; or to reject any and all bids under said plans and specifications and to award the contract as a whole on any alternate proposal for the construction of a complete Filtration Plant; or to adjust the amount of work to the amount of funds available for payment of the same; and to accept any bid which it deems most favorable to the Village of East Youngstown, or to reject all bids.

By order of the Board of Trustees of Public Affairs of the Village of East Youngstown.

J. E. McGARRY.
A. M. ANDERSON.
C. C. REED.

Dated June 27th, 1916.

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Bids received until July 18, 1916.

Streets Improvements

Bound Brook, New Jersey.

Sealed Proposals will be received by the Mayor and Council of the Borough of Bound Brook until 8:30 p.m. on Tuesday, July 18th, 1916, at the Borough Hall in the American Hose Company Bldg., on East Second Street, in said Borough, for regulating and paving with Vitrified Brick and Granite Block certain streets in said Borough.

The Engineer's approximate estimate of the amount of pavement to be laid is 8,000 square yards.

Plans may be examined and specifications, etc., may be obtained at the Office of the Borough Clerk, Stanley Brampton, Main Street, Bound Brook, N. J., or at the office of the Engineers in charge, 109 Park Avenue, Plainfield, N. J.

F. A. DUNHAM-CLARIN CO.,
Engineers in Charge.

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Bids received until July 18, 1916.

Metal Furniture and Equipment

Albany, N. Y.

Sealed proposals for Metal Furniture and Equipment for State House, Albany, N. Y., will be received by the Trustees of Public Buildings, Executive Chamber, Capitol, Albany, N. Y., until 3 o'clock P.M. on Tuesday, July 18, 1916, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent. (5%) of the amount of proposal. Contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent. (50%) of the amount of contract within thirty (30) days after official notice of award of contract, and in accordance with the terms of specification No. 2446. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the New York Office of the Department of Architecture, Room 1224 Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, Lewis F. Pilcher.

June 30, 1916.

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Bids received until Aug. 15, 1916.

Viaduct

Petersburg, Va.

The City of Petersburg proposes to construct a viaduct, about 1,800 feet long and 40 feet high, on Second Street in the City of Petersburg, Virginia. The proposed viaduct to cross the tracks of the Norfolk & Western Railway and the Atlantic Coast Line Railroad and also to cross Appomattox River.

Bids will be received by Mr. R. D. Budd, City Engineer, on August 15, 1916. The bids to be accompanied by complete plans and specifications, to be prepared by the bidder. Bids and designs submitted will be referred to a Board composed of the Chief Engineers of the Norfolk & Western Railway Company and the Atlantic Coast Line Railroad Company and the City of Petersburg, which Board will decide as to the two most advantageous bids. The most advantageous bid will receive a prize of $300.00 and the next most advantageous bid will receive a prize of $150.00, these payments being in full for the trouble and expense of submitting the plans.

Plan, profile and general instructions to bidders can be had upon application to the City Engineer of Petersburg, Virginia, by making a deposit of $10.00 which deposit will be returned to the applicant when the plans and specifications are returned in good condition.

SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until Aug. 10, 1916.

Water-Works System

Red Creek, N. Y.

Sealed proposals will be received by the Village Trustees of Red Creek, N. Y., until 2 o'clock P.M., August 10, 1916, for the construction of a Water-Works System, which will include about four miles of 8" and 6" cast-iron pipe laying, valves and hydrants, pumping station, power pumping machinery and elevated water tank.

Plans, specifications, form of proposal and contract may be seen at the office of the Village Clerk, Red Creek, N. Y., and obtained at the office of the Engineer, H. C. Kittredge, 704 German Insurance Building, Rochester, N. Y.

The Trustees reserve the right to reject any and all bids.

The proposal for said work shall be accompanied by a certified check drawn upon a State or National Bank for 5 per cent. (5%) of the price bid, payable to the order of the Village Board of Trustees, Red Creek, N. Y.

The checks deposited by the unsuccessful bidders will be returned. The amount of the check deposited by the successful bidder shall be forfeited in the event that said bidder shall fail within ten days after the award to execute the contract and furnish to the Village Trustees a satisfactory bond.

Proposals must be on forms furnished by the Village Trustees and addressed to O. F. Jones, President, Red Creek, Wayne County, New York, and shall be endorsed "Proposals for Water-Works System."

ORSON F. JONES,
MYRON H. SHIRTZ,
WILLIAM ELMENDORF,
Village Trustees.
F. M. JONES, Village Clerk.
JOHN F. O'BRIEN, Attorney.
H. C. KITTREDGE, Engineer,
Rochester, N. Y.
Dated July 7th, 1916.

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Bids received until July 18, 1916.

Intercepting Sewer

PASSAIC VALLEY SEWERAGE COMMISSIONERS.

NOTICE TO CONTRACTORS.

Notice is hereby given that the Passaic Valley Sewerage Commissioners have designated Tuesday, the eighteenth day of July, nineteen hundred and sixteen, at two o'clock in the afternoon, as the time when they will meet at their usual place of meeting, Essex Building, Clinton Street, Newark, New Jersey, to receive proposals, in writing for the construction of Section 22 of the Lawrence Street Branch Intercepting Sewer in the City of Paterson in the County of Passaic in New Jersey.

Particulars that may enable Contractors to judge of the character of the work are given below:

APPROXIMATE QUANTITIES.

Section 22.

Item 1.—Earth excavation and refilling in trench, for 36-inch concrete sewer....................350 Linear feet
Item 2.—Earth excavation and refilling, in trench, for 30-inch concrete sewer..................2,215 Linear feet
Item 3.—Earth excavation and refilling, in trench, for 15-inch vitrified pipe sewer, with concrete reinforcement, including pipe, etc., 670 Linear feet
Item 4.—Earth excavation and refilling, in trench, for 12-inch vitrified pipe sewer, with concrete reinforcement, including pipe, etc., 390 Linear feet
Item 5.—Earth excavation and refilling, in trench, for 8-inch vitrified pipe sewer, with concrete reinforcement, including pipe, etc., 340 Linear feet
Item 6.—Concrete masonry, in trench, Portland cement mortar, 1,200 Cubic yards
Item 7.—Brick masonry, in manholes, Portland cement mortar and appurtenant work..........250 Cubic yards
Item 8.—Rock excavation, in trench, 50 Cubic yards
Item 9.—Excavation and refilling, etc., for special structures and reconstruction of local sewers....Lump sum
Item 10.—Furnishing and installing one set of sewage regulating apparatus.......................Lump sum
Item 11.—Furnishing and erecting back water gates in seven local sewers.......................Lump sum

Drawings, form of contract and specifications, and blank form for proposal, may be obtained at the Commissioners' office from William M. Brown, Chief Engineer.

The Commissioners reserve the right to reject any or all bids.

PASSAIC VALLEY SEWERAGE COMMISSIONERS.
JOSEPH H. QUIGG, Clerk.
June 27, 1916.

⁂

Bids received until Aug 14, 1916

Highway Grading

Birmingham, Ala

Sealed proposals for the grading of approximately 14 miles of highway from Birmingham to the Warrior River will be received by the Board of Revenue of Jefferson County at their office, Court House, Birmingham, Ala., August 14th, 1916, at 12 o'clock noon.

Profiles and specifications can be seen at the office of the County Engineer, Birmingham, on and after August 7th, 1916.

Road to be 35 feet wide in excavation, 30 feet wide in embankment. Proposals will include building of necessary culverts, etc.

Payment for said work to be made in County warrants issued from time to time as work progresses, said warrants to be issued so that not more than the sum of $100,000.00 will be payable in any one year. Said warrants to bear interest from the date of their issuance at a rate of interest not to exceed 4¾ per cent. per annum, interest to be paid semi-annually from date of issue.

The right to reject any or all bids is reserved.

GEO. H. CLARK,
County Engineer.

⁂

Bids received until July 20, 1916.

C. I. Pipe and Castings

DEPARTMENT OF PARKS AND PUBLIC PROPERTY.

City of Atlantic City, N. J.

Sealed proposals for making and furnishing cast-iron pipe and special castings for the City of Atlantic City will be received by the Board of Commissioners of Atlantic City, when called for at the chambers of the Board in the City Hall, during a meeting to be held by that body on the twentieth day of July, A. D. 1916, at which time and place, during the session of said Board, the proposals will be opened and publicly read.

The materials to be made and furnished under the proposals embrace approximately:

1,125 tons of cast-iron pipe 20 inches internal diameter.
550 tons of cast-iron pipe 12 inches internal diameter.
18 tons of cast-iron pipe 8 inches internal diameter.
15 tons of cast-iron pipe 6 inches internal diameter.
9 tons of cast-iron flange pipe 8 inches internal diameter, 5 feet long.
100 tons of special castings.

Each proposal submitted must be accompanied by a certified check drawn upon a National or State Bank, or a Trust Company, and to the order of the City Treasurer, for the sum of One Thousand Dollars ($1,000.00).

Specifications, plans and blank forms of proposal can be obtained upon application to L. Van Gilder, Engineer and Superintendent of Water Department, at his office in Atlantic City.

The Board of Commissioners expressly reserves the right to reject any or all bids as it may deem best for the public interest.

J. B. THOMPSON,
Director of Parks and Public Property.

⁂

Bids received until July 27, 1916.

Ditch Excavation

Hillview, Ill.

Bids will be received until 1:30 o'clock P.M., July 27, 1916, by the Board of Commissioners, Hillview Drainage and Levee District, for Ditch Excavation, consisting of approximately 220,578 cubic yards. Plans and specifications on file at office of Engineer or may be purchased for $5.00. Caldwell Engineering Company, Civil Engineers, 710-711 Ayers Bank Building, Jacksonville, Illinois.

⁂

Bids received until July 20, 1916.

Sewer Proposals

City of Bridgeport, Connecticut.

Sealed proposals will be received until 7:30 P.M. of July 20th, 1916, at the office of the Paving and Sewer Commission, Room 22, City Hall, Bridgeport, Conn., for the construction of about 9,400 ft. of 60-inch, 66-inch, 72-inch sewer, average cut about 24 ft. Plans and specifications can be obtained from Alfred H. Terry, City Engineer, Room 20, City Hall, after June 26th, on payment of $2.00.

BERNARD KEATING, Secretary.

SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until July 24, 1916.

Street Improvement

Audubon, N. J.

Sealed proposals are invited for improving certain streets in the Borough of Audubon, N. J., as provided in an ordinance adopted July 10th, 1916, in accordance with the Standard Borough Specifications, which will be mailed to any address upon application.

Bids will be received, immediately opened and publicly read in the Council Chamber at Audubon on Monday, July 24th, 1916, at 8 p.m.

Unit prices are asked for 44,740 sq.yds. of plain concrete road complete as specified.

Unit prices are asked for 25,377 sq.yds. of water bound macadam as specified.

There will be approximately 3,000 cu.yds. of excess excavation at a fixed price of 30c. per cu.yd.

A separate additional price per square yard is asked for furnishing and installing, two inches below the top surface of the concrete, expanded metal weighing approximately ¼ pound per sq.ft.

Each bidder must name a time limit for completing the work. This will be a factor in the award of the contract.

The Council reserves the right to reject any or all bids.

Bids are to be addressed to Conway Bennett, Borough Clerk, Audubon, N. J., and marked Proposal for Street Improvement. A certified check in the sum of 10% of bid must accompany each proposal. (Signed)

PRESCOTT C. MILLS, Mayor.

Attested:

CONWAY BENNETT, Clerk.

J. J. ALBERTSON, Borough Engineer.

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Bids received until July 25, 1916.

Sewer Construction

Rahway, N. J.

Sealed proposals will be received by the Common Council of the City of Rahway, N. J., up to 8 o'clock P.M. Tuesday, July 25th, 1916, at the City Hall, for the construction of sewers as follows:

3,493.5 ft. of 8-in. vitrified tile sewer
674 ft. 10-in. vitrified tile sewer

with the necessary "Y" branches, manholes, etc.

Plans and specifications may be examined at the office of the City Engineer.

A certified check for the sum of $500.00 must accompany each bid, payable to "The Mayor and Common Council of the City of Rahway."

The Common Council reserves the right to reject any or all bids.

FRANKLIN MARSH,
City Engineer.

Rahway, N. J., July 12th, 1916.

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Street Improvements

Thomasville, Ga.

The City of Thomasville asks for bids for approximately 2,540 lin.ft. 5-ft. sidewalk and 2,200 lin.ft. 24-in. gutter with 8-in. curb, all concrete. City will grade into condition for sub-grade. Address

WILLIAM MILLER,
Chairman of Streets.

Bids received until Aug. 10, 1916.

Pump Pit, Superstructure Lowering, Suction Line, and Appurtenances

Coshocton, Ohio, July 8, 1916.

LEGAL NOTICE

Sealed Proposals for the construction of a Concrete Pump Pit and Brick Superstructure for same, lowering existing 20-inch Cast-Iron Suction Line at Pumping Station, and appurtenances will be received by the Service Safety Director of the City of Coshocton, Ohio, at his office in the Municipal Building in said City, until twelve (12) o'clock noon, central standard time, August 10th, 1916, and will then be opened and read publicly.

All bids shall be made upon the official Proposal Blanks attached to the Instructions to Bidders, Specifications, and Form of Contract and Bond, which may be seen at the office of the Service Safety Director, Coshocton, Ohio, or may be had by bona fide bidders upon application to Chester & Fleming, Engineers, Union Bank Building, Pittsburgh, Pennsylvania, on deposit of a certified check for Twenty-five ($25.00) Dollars, which will entitle bidder to one set of plans and two copies of the specifications, covering the items on which he intends to bid. Proper receipt for each such deposit will be given and the check will be returned provided plans and specifications are returned in good condition within ten (10) days after reception of bids.

Each proposal shall be accompanied by a certified check made payable to the order of the Treasurer of the City of Coshocton, Ohio, of not less than three (3%) per cent. of the total amount of the bid, but in no case shall this check be less than One Hundred ($100.00) Dollars. This check is to be conditioned that if bid is accepted, a contract will be entered into and the performance of same secured within ten (10) days after notification of acceptance of the bid. In case bid is rejected, or contract entered into, check will be returned. Successful bidders will be required to furnish a corporate surety bond in an acceptable Surety Company in the full amount of the contract.

The right is reserved to reject any or all bids.

SAM ASHMAN,
Service Safety Director.
CHESTER & FLEMING, Engineers,
Union Bank Building, Pittsburgh, Pa.

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Bids received until July 24, 1916.

Improvement of Water-Works

Dover, Ohio.

Bids will be received until noon, July 24th, 1916, for the improvement of the Water-Works System of Dover, Tuscarawas County, Ohio, as follows:

One 2 million gallon pump.
One 1½ million gallon steel standpipe.
600 lin.ft. of 14" W. I. Pipe to be laid beneath the Tuscarawas River and the Ohio Canal.
9,200 lin.ft. of 12" C. I. Pipe.
1,640 lin.ft. of 14" C. I. Pipe.

PHILIP W. HILL,
Director of Public Service.

Bids received until July 26, 1916.

Paving

Lebanon, Pa.

Sealed proposals directed to the City Clerk will be received by the Council of Lebanon, Pa., at the City Hall, until 5 P.M., Wednesday, July 26, 1916, for the furnishing of all labor and materials required to construct the following pavements:

Church St., approx. 3,300 sq.yds.
Willow St., approx. 1,600 sq.yds.
Doe alley, approx. 900 sq.yds.
Walnut alley, approx. 400 sq.yds.

for which alternate bids will be received on Wood Block, Bituminous Concrete or Cement Concrete.

Specifications, proposal blanks and information concerning the manner of submitting bids can be obtained by application to the City Clerk, Dan. M. Sharp, Lebanon, Pa., or to the City Engineer.

Certified checks of the different amounts called for on the several proposals must accompany each bid.

The Mayor and Council distinctly reserve the right to reject any or all bids and to award the contract as is deemed to the best interest of the City of Lebanon.

PAUL A. VOLCKER,
City Engineer.

⁂

Bids received until July 21, 1916.

Notice to Motor Driven Fire Apparatus Builders

Lodi, N. J.

The Fire and Water Committee of the Mayor and Council of the Borough of Lodi, N. J., will receive sealed bids on Friday evening, July 21st, 1916, at 8 o'clock p.m., in the Council Chamber of the Municipal Building, 47 Main Street, Lodi, New Jersey, for the following motor-driven fire apparatus:

One (1) Combination Chemical and Hose Wagon, to be built according to the specifications adopted by the Mayor and Council June 30th, 1916.

Specifications can be obtained upon application to the Fire and Water Committee of the Mayor and Council of the Borough of Lodi, N. J.

The right is reserved to reject any or all bids.

This notice is to Motor-Driven Fire Apparatus Builders exclusively.

By order of the Mayor and Council of the Borough of Lodi, N. J.

JOHN R. MacCULLOCH,
Chairman of the Fire and Water Committee,
178 Main Street, Lodi, N. J.

Attest:

JAS. A. McMAHON, Borough Clerk.

⁂

Bids received until July 28, 1916.

Sewer and Water Pipe

Peotone, Ill.

Bids will be received July 28th, 1916, until 2 P.M., for

703 ft. 10" sewer.
7,096' 4" water pipe.
2,590' 6" water pipe.

Specifications at office of

P. M. COLLINS,
Pres. The Citizens Bank,
Peotone, Ill.

Construction News

RAILWAYS. STEAM AND ELECTRIC

Proposed Work

New York—Buffalo & Depew Ry. granted franchise to construct track on Central Ave., Lancaster. J. A. Ricker, Baltimore, Ch. Engr.

New York—Lehigh Valley R.R. to issue $1,100,000 bonds for extensions and improvements to system. E. B. Ashby, 143 Liberty St., New York, Ch. Engr.

Pennsylvania—Mahoning & Shenango Railway and Light Co. making plans to build extensions in Sharon. F. W. Funk, Youngstown, Ohio, Ch. Engr.

Pennsylvania—Pennsylvania Railroad Co. plans enlargement of yards at Renova. A. C. Shand, Philadelphia, Ch. Engr.

Pennsylvania—Quakertown & Delaware River Railroad Co. to electrify line from Quakertown to Riegeesville, about 15 mi. J. M. Buckland, Allentown, interested.

Pennsylvania—Sterling Smokeless Coal Co., Somerset, plans 3-mi. railway to connect with Somerset & Cambria Ry.

Maryland—United Railways and Electric Co., Baltimore, requested by Public Service Commission of Maryland to extend Columbia Ave. and Orangeville line. W. D. Pratt, Continental Bldg., Baltimore, Ch. Engr.

Maryland—United Railways and Electric Co., Baltimore, granted franchise to construct double-track line over New Hanover St. Bridge. W. D. Pratt, Continental Bldg., Baltimore, Ch. Engr.

Virginia—Roanoke Railway and Electric Co. applied to Council, Roanoke, for franchise to extend 9th St. line about 1 mi. J. W. Hancock, Roanoke, Mgr.

West Virginia—Monongahela Valley Traction Co. plans extension from Morgantown to Adamson. S. B. Miller, Fairmont, Ch. Engr.

North Carolina—Thomasville Terminal Co., recently incorporated, plans railway in Thomasville and interurban lines. T. J. Flinch and J. W. Lambeth, incorporators.

Georgia—Georgia Railway and Power Co., Atlanta, plans extension of Gainesville, Ga., street-car lines. G. W. Brine, Atlanta, Gen. Mgr.

Georgia—Marianna & Blountstown R.R. plans extension from Blountstown to Columbus. C. R. Evans, Marianna, Gen Mgr.

Georgia—Savannah River Terminal Co., recently incorporated, plans railway in Augusta. C. A. Wickersham, Atlanta, and W. A. Vincent, Augusta, incorporators.

Florida—Lakeland, Bartow & Winterhaven Railroad Co. plans line from Lakeland to Bartow and Winterhaven. J. L. Wilson, Altoona, Pres., E. B. Nelson, Baltimore, Md., Gen. Mgr.

Florida—Ocklawaha Valley Railroad Co. plans extension from Ocaha to Poca Grande, about 80 mi. C. A. Marshall, Ocala, Pres.

Tennessee—DeKalb County election Aug. 24 to vote on $150,000 bonds to aid Nashville & Eastern Ry. to build line from Nashville to Smithville, about 55 mi. C. T. Edwards, Smithville, interested. Noted Apr. 13.

Tennessee—Hardin County, Savannah, voted $150 000 bonds for proposed Wayne-Hardin R.R. from Collinwood to Savannah, Tenn. E. H. Steinman, Collinwood, interested. Noted Apr. 27.

Tennessee—Wayne County, Waynesboro, election Aug. 19 to vote on $150,000 bonds for proposed Wayne-Hardin R.R. from Collinwood to Savannah, Tenn. E. H. Steinman, Collinwood, interested.

Kentucky—South Covington & Cincinnati St. Ry., Covington plans extension of Ft. Thomas line to Cold Springs, 1½ mi. W. H. Harton, Jr., Covington, Ch. Engr.

Michigan—Pere Marquette R.R. plans to spend $8,000,000 for improvements at Lansing during next 5 years. A. L. Grandy, Detroit, Ch. Engr.

Illinois—Illinois Central R.R. plans extension from Effingham to point near Paducah, Ky. A. S. Baldwin, Chicago, Ch. Engr.

Illinois—Peoria Ry. plans extension from Washington to Bloomington St., East Peoria. R. F. Palmblade, Peoria, Ch. Engr.

Illinois—Quincy Ry. plans loops at terminus State St. Line at 22nd and Washington Ave. W. L. Peters, Quincy, Ch. Engr.

Wisconsin—Wisconsin & Northern R.R., Shawano, soon receives bids for extension from Shawano to Black Creek. W. Cambler, Oshkosh, Ch. Engr. Noted Mar. 23.

South Dakota—Great Northern Ry. acquired South Dakota Central Ry. running from Watertown to Sioux Falls and will improve same. A. H. Hogeland, St. Paul, Ch. Engr.

Texas—Houston & Brazos Valley Railroad Co. plans to spend $51,000 for improvements. G. C. Morris, Freeport, Recvr.

Texas—Texas Electric Ry. acquired Texas Traction Co. and Southern Traction Co. and organized with $10,500,000 capital stock. New company takes over all lines of above companies and will make necessary extensions to connect route from Dallas to Waco with lines from Dallas to Corsicana. J. F. Strickland, Dallas, interested.

Texas—(Press)—Texas Midland plans to electrify line from Paris to Ennis, about 124 mi. E. H. R. Green, Pres. and Gen. Mgr.

Oklahoma—St. Louis, Iron Mountain & Southern R.R. plans branch line from Claremore into Tulsa and Payne Counties. E. A. Hadley, St. Louis, Ch. Engr.

Arizona—George B. Chrittenden, Kelvin, plans railway from Brannaman to Snider mining property.

Arizona—Epes Randolph, Tucson, plans railway from Benson to Wilkeman, about 80 mi.

Oregon—City Roseburg made plans for proposed Roseburg & Eastern R. R. from Roseburg to western slope Cascade Mts. Kendall Bros., Pittsburgh, Penn., interested. Noted May 25.

California—Martinez & Concord Interurban Railway Co. plans line from Martinez via Avon to connect with Oakland, Antioch & Eastern R.R. at Government Ranch. J. B. Rogers, San Francisco, Ch. Engr.

California—Visalia Electric Railroad Co. plans to extend line from Exeter to Lindsay and El Mirador. F. W. Webster, Fresno, Gen. Mgr.

Alberta—Canadian Northern Ry. plans 40-mi. extension, Onaway to San Jude and White Court. M. H. McLeod, Winnipeg, Ch. Engr.

Bids In and Contracts Aw[illegible]

Pennsylvania—McConnellsburg & Ft. [illegible]don Railroad Co. let contract for line from McConnellsburg to Ft. Loudon to C. E. COON. J. P. Sipes, McConnellsburg, Pres. Noted June 29.

Georgia—Southern Railway let contract double-tracking line between Duluth and Sewanee, Ga., and Spartanburg, S. C., and Charlotte, N. C., to BROOKS-CALLAWAY CO., Atlanta. B. Herman, Washington, D. C., Ch. Engr. M. W. and Struct.

Mississippi—Yazoo & Mississippi Valley R.R. will raise tracks near Vicksburg above overflow of river. Work to be done by company forces. Grading contract let to H. W. NELSON CO., 208 South LaSalle St., Chicago. A. H. Egan, Memphis, Gen. Supt. Noted Mar. 16.

LIGHT, HEAT AND POWER

Proposed Work

Vt. Jeffersonville—Public Electric Light Co. of St. Albans granted franchise to construct transmission lines.

Mass., Merrimac—Massachusetts Consolidated Ry. plans new boiler house. F. Woodman, 50 Merrimac St., Haverhill, Gen. Mgr.

N. Y., Canisteo—Canisteo Light and Power Co., recently organized, plans electric-light plant. L. A. Walsh, interested.

N. Y., Johnson City—Binghamton Light, Heat and Power Co., 172 Washington St., to build power plant. About $500,000.

N. J., Bloomfield—Fries Bros., manufacturers of chemicals, to build new power plant.

N. J., New Brunswick—Ringwalt Linoleum Co. made plans for boiler house. Ballinger & Perrot, 17th and Arch St., Philadelphia, Arch.

N. J., Trenton—J. A. Roebling's Sons Co. to build boiler house addition, about $20,000.

Penn., New Oxford—Hanover Light, Heat and Power Co., Hanover, granted franchise for electric-light plant.

Va., Front Royal—(Official)—Council receiving bids Aug. 12 for additions to power plant. W. W. Sonner, Chn. Electric Light Com. E. V. Dunstan, 3420 36th St., Washington, D. C., Consult. Engr. (See adv.)

Ga., Butler—Butler Light Co. made plans dam over Beaver Creek.

Ala., Fairhope—City plans electric-light plant.

Ala., Lineville—Alabama Power Co., Birmingham, plans electric-light plant.

Miss., Baldwyn—See item under "Water-Works."

Miss., Edwards—City making plans for electric-light plant. X. A. Kramer, Magnolia, Engr.

Tenn., Nashville—Council plans $1,500,000 bond issue for electric-light plant. W. W. Southgate, City Engr.

Ohio, Oxford—Council authorized trustees of electric-light plant to make plans for improvements. Noted Apr. 27.

Ohio, Tiffin—Council plans electric-light plant. L. P. Runkle, City Engr.

Ill., Albany—(Official)—Town receiving bids Aug. 1 for distribution system. D. G. Fisher & Co., 212-14 Whitaker Bldg., Davenport, Iowa, Engr. (See adv.)

Ill., Pleasant Hill—Village Bd. plans electric-light plant.

Kan., Garfield—Council plans election to vote on $10,000 electric-lighting system bonds.

Neb., Holbrook—(Official)—City receiving bids July 27 for electric-light plant. About $8,870. S. F. Davis, City Clk. Grant & Fulton, Lincoln, Engr. Noted June 1.

Neb., Plymouth—Plymouth Light and Power Co. incorporated to construct electric-light plant. About $10,000. O. Dorn, Secy.

Neb., Wahoo—See item under "Water Works."

N. D., Jamestown—Western Electric Co. made plans for power house and smokestack. O. J. O'Shea, Fargo, Arch. Noted Mar. 9.

Mo., Altenburg—City plans electric-light plant.

Ark., Gillham—W. A. Burr plans electric-light plant.

Colo., Florence—United Oil Co. to build new boiler house. About $65,000. F. E. Knock, Supt.

Colo., Lyons—City making plans for electric-light plant. R. D. Salisbury, Engr.

N. M., Mogollon—E. C. Cleaveland made surveys for hydro-electric plant.

Idaho, Rockland—J. E. Marsh and H. B. Logan applied to Pub. Ser. Comn. for permission to install power plant and transmission lines.

Ariz., Tombstone—Council passed ordinance granting franchise to E. L. Wright to construct electric-light plant.

Ariz., Wickenburg—Citizens voted $12,000 electric-light plant bonds. Noted June 8.

Ore., Portland—Willamette Iron and Steel Co. plans boiler house at 17th and Front St. About $12,000.

Calif., San Leandro—C. L. Best Gas Traction Co. plans new plant. About $70,000.

Bids In and Contracts Awarded

Conn., New Britain—North & Judd Manufacturing Co. let contract power plant to B. H. HIBBARD CO. J. A. Stevens, Lowell, Engr.

Va., Norfolk—City Gas Co., let contract addition to R. R. RICHARDSON, Chamber of Commerce Bldg., about $10,000.

N. C., Marshall—Capitola Manufacturing Co. rejected bids dam over French Broad River. Noted Mar. 23.

Wis., Portage—Wisconsin Power Light and Heat Co. let contract power station to WORDEN-ALLEN CO., 208 South LaSalle St., Chicago. Noted Mar. 30.

Kan., Emporia—College of Emporia let contract heating system administration building to BURNAP BROS., Emporia, $13,671.

Tex., Wharton—Texas Southern Electric Co., Victoria, let contract addition to power house to J. T. WILLIAMS.

Calif., Pasadena—City received low bid electrical conduit system in Lester Ave. W. A. McNally & Co., 199 East Colorado St., $7,385.

BRIDGES

Proposed Work

Mass., Westfield—(Official)—City will not receive bids for concrete bridges over Little River on Southwick Rd. and Munns Brook on Loomis St. as noted in July 6 issue.

Conn., Hartford—See item under "Streets and Roads."

N. Y., Bible School Park—City plans steel bridge over Susquehanna River.

N. Y., Delevan—State Highway Dept., 55 Lancaster St., Albany, plans steel bridge in Cattaraugus County, about $9,000. A. Bird, Ellicottsville, Supt. Highways.

N. J., Trenton—County plans improving Bruers bridge on Princeton and Lawrenceville Rd. About $10,000. Address County Clerk, Trenton.

Penn., Mercer—County made plans for several bridges. Address County Clk., Mercer.

Md., Baltimore—Potomac River & Baltimore Railway plans bridge across Potomac River between Popes Creek and Lower Cedar Point.

W. Va., Marlinton—City receiving bids Aug. 8 for rein.-con. bridge across Slaty Fork of Elk River. S. L. Brown, Clk.

W. Va., Parkersburg—(Official)—Sanderson & Porter, 52 William St., New York, receiving bids Aug. 5 for bridge above Boaz Stop. About $40,000. Noted July 6.

N. C., Winston-Salem—Norfolk & Western Ry. plans concrete bridges over North Liberty St.

Ga., Hartwell—J. J. Fretwell, Anderson, S. C., and Edgar McCurry, Hartwell, Ga., plan toll bridge over Savannah River, between Hartwell and Anderson

Fla., Jacksonville—Bd. County Comrs. plans to vote on bonds for bridge across St. Johns River. H. G. Perring, Jacksonville, County Comr. Noted Mar. 16.

Fla., Tampa—City plans bridge across Old Tampa Bay. W. S. Gandy and Walter Fuller, interested.

Fla., Moline—County plans bridge over Escambia River. About $15,000. Address County Clk., Pensacola.

Ala., Bay Minette—County receiving bids Aug. 16 for Hollinger Creek Bridge. Address County Clk., Bay Minette.

Miss., Vicksburg—Yazoo & Mississippi Valley Ry. plans bridge across Big Black River. About $250,000.

Tenn., Benton—County plans bridge over Hiwassee River. About $23,000. Address County Clk., Benton.

Tenn., Jonesboro—County voted $7,500 bonds for bridge across Watauga River. Address County Clk., Jonesboro.

Tenn., Knoxville—City Comrs. plan concrete viaduct on State St. from Commerce to Depot.

Tenn., Nashville—City made plans for rein.-con. viaduct connecting East Nashville with Northeast Nashville. About $110,300.

Ky., Blue Lick Springs—City plans bridge across Licking River. About $12,000.

Ky., Franklin—Simpson County soon lets contract for bridge over Red River. About $10,000. Address County Clk., Franklin. Noted July 13.

Ohio, Akron—(Official)—County rejected bids July 10 for bridge in South Main St. U. G. High, Clk. Noted June 29.

Ohio, Canton—Wheeling & Lake Erie R.R. plans rein.-con. bridge at East Tuscarawas St. W. L. Rohlook, Ch. Engr.

Ohio, Chillicothe—County plans bridge over Lunbeck mill race. Walter Barrett, Chillicothe, County Audr.

Ohio, Cleveland—City plans viaduct over West 25th St.

Ohio, Columbus—County receiving bids July 28 for approaches to Havens Corners Bridge in Jefferson Township. John Scott, Columbus, County Clk.

Ohio, Lisbon—(Official)—County receiving bids Aug. 14 steel truss bridge. H. C. Armstrong, Lisbon, County Highway Supt.

Ohio, London—City plans bridge over Glade Run on North Water St. near 5th.

Ohio, Norwalk—County Comrs. receiving bids Aug. 8 for bridges. Charles E. Bloomer, Norwalk, Clk.

Ohio, Painesville—County Audr. receiving bids July 24 for 2 bridges. W. Albert Davis, Painesville, County Audr.

Ohio, Xenia—County plans steel bridge over Little Miami River. Address County Clk., Xenia.

Ohio, Youngstown—County receiving bids July 24 for box culvert on Western Reserve Rd. No. 32. Frank H. Vogan, Youngstown, Clk. County Comrs.

Ohio, Youngstown—City made plans for bridge on East Federal St. F. M. Lillie, City Engr. Noted Oct. 14.

Ind., Brazil—County receiving bids Aug. 8 for bridges. W. O. Graeser, Brazil, County Audr.

Ind., Lawrenceburg—County receiving bids Aug. 8 for bridge. H. E. Lutherbeck, Lawrenceburg, County Audr.

Ind., Monticello—County receiving bids Aug. 8 for bridge. A. G. Fisher, Monticello, County Audr.

Ind., Rensselaer—County receiving bids Aug. 8 for 2 steel bridges. J. P. Hammond, Rensselaer, County Audr.

Ind., Salem—County receiving bids Aug. 7 for 6 bridges. Frank E. Morris, Salem, County Audr.

Ind., Shelbyville—County receiving bids Aug. 8 for bridge. F. W. Fagel, Shelbyville, County Audr.

Ind., Versailles—County receiving bids Aug. 7 for bridge. J. F. Lochard, Versailles, County Audr.

Mich., Benton Harbor—Superv. Berrien County passed resolution to spend about $9,000 for bridge on Willow Dr. Address County Clk., Benton Harbor.

Ill., Aurora—City plans rein.-con. bridge over Fox River. About $75,000.

Ill., Genesee—County receiving bids July 25 for 2 concrete bridges. Address County Clk., Morrison.

Ill., Mt. Carroll—(Official)—County receiving bids July 26 for rein.-con. bridges and culverts. Address County Clk., Mt. Carroll.

Ill., North Canton—Village voted to build bridge over Kizer River.

Iowa, Clarinda—County made plans for bridge over West Nodaway River. Noted Apr. 13.

Iowa, Mason City—County plans bridge in Portland Township. Address County Clk., Portland.

Iowa, Oskaloosa—City soon to let contract for bridge over West Nodaway River. About $25,000.

Minn., Fergus Falls—City receiving bids July 25 for repairing bridge across Hay Creek.

Minn., St. Paul—State Drainage Bd. plans 2 bridges over Roseau River. About $10,000.

Kan., Lyndon—City receiving bids July 29 for abutments for bridge across Wolf Creek.

Mo., Jefferson City—See item under "Streets and Roads."

Mo., Kansas City—City making plans for new 4th St. viaduct. About $100,000. Waddel & Son, 800 Graphic Arts Bldg., Engr.

Mo., Kansas City—City made plans for 5 span rein.-con. bridge across Blue River. About $220,000. Waddel & Son, 800 Graphic Arts Bldg., Engr.

Mo., Kansas City—City making plans for rein.-con. bridge across Brush Creek at Troost Ave. About $30,000. Curtis Hill, City Engr.

Mo., Kansas City—City made preliminary plans for rein.-con. viaduct on College Ave. Curtis Hill, City Engr.

Ark., Corning—County plans 2 bridges, one at Brown's Ferry the other at St. Francis. About $12,000. Address County Clk., Corning.

Okla., Kingfisher—City plans new bridge.

Okla., Mangum—County votes Aug. 1 on $150,000 bridge bonds. Address County Clk., Mangum.

Okla., Tulsa—County receives bids Aug. 7 for 4 steel bridges. L. Cline, Tulsa, County Clk.

Okla., Woodward—City making plans low water bridge.

Colo., Burlington—(Official)—County rejected bids for bridge over Republican River. New bids received July 28. Noted June 29.

Colo., Gunnison—County receiving bids Aug. 2 for steel bridge over Gunnison River. R. S. Lebell, Gunnison, County Clk. Noted July 13.

Wash., Colfax—County receiving bids Aug. 7 for 6 bridges. J. W. McCaw, Colfax, County Engr.

Calif., Camarillo—County plans rein.-con. bridge. Address County Clk., Ventura.

Calif., Oroville—County made plans for concrete bridge over Little Chico Creek. M. C. Polk, Oroville, County Surv.

Calif., Placerville—County approved plans for Colomo bridge. About $10,000. Noted June 22.

Calif., Willow—County plans bridge over Walker Creek. Address County Clk., Willow.

Que., St. Rose du Lac—City plans bridge. C. Jacob, Clk.

Man., Franklin—City plans concrete bridge. J. R. Witty, Dominion City, Clk.

Man., Grandview—City plans 4 rein.-con. bridges. W. Dickey, Clk.

Bids In and Contracts Awarded

N. J., Irvington—County let contract bridge on Chancellor Ave., to AVERILL-MATTHEWS CO. A. L. Lacombe, Chn. of Bridge Com. Noted June 15.

N. J., Newton—City let contract iron bridge on Ross' Corner-Sussex Rd. to F. W. SCHWEIR CO., also concrete arch bridge on same road to FRANKLIN CONSTRUCTION CO.

Penn., Harrisburg—Philadelphia & Reading Ry. let contract superstructure steel bridge at Boyd Station to PENNSYLVANIA STEEL CO., 1421 Chestnut St., Philadelphia.

Penn., Johnstown—City let contract bridge over Stony Creek River on Central Ave. to HACKEDON CONTRACTING CO., Indianapolis. About $59,600. Noted June 22.

Penn., Lansdale—Philadelphia & Reading Railroad Co. let contract bridge No. 22 on Bethlehem Branch to CANTRELL CONSTRUCTION CO., 21st St. and Sedgeley Ave., Philadelphia.

Penn., Media—County let contract bridge over Ridley River to GIBBONS & BUCKLEY, Lansdowne, $17,474. Noted June 8.

Penn., Philadelphia—Philadelphia & Reading Railroad Co. let contract bridge No. 77 on Poor House Rd. over Lebanon Valley Branch to PENNSYLVANIA STEEL CO., Morris Bldg., Philadelphia.

Del., Rehoboth Beach—(Official)—County let contract bridge across U. S. Canal to GEORGE W. DRURY, York, Penn., about $13,600. Noted June 15.

Va., Hillsville—(Official)—County let contract 81-ft. bridge over Snake River to VIRGINIA BRIDGE AND IRON CO., Roanoke. About $4,015. Noted June 29.

W. Va., Charleston—County let contract steel bridge across Elk River between 2 counties to D. MINNOTTE. About $23,000. Noted June 15.

W. Va., Middlebourne—(Official)—County let contract rein.-con. arch bridge over Middle Island Creek to PIPES & WATSON, Middlebourne, about $8,660. Noted June 22.

Tenn., Rialto—County let contract bridge over Big Hatchie River near Rialto to LARIMER & BURGET BRIDGE CO., Memphis, $39,500.

Ohio, Columbus—City let contract Children's Home Bridge to CAPITAL CONSTRUCTION CO., Columbus. About $4,990.

Ohio, Columbus—Dir. Pub. Ser. let contract repair Front St. Viaduct to E. M. SKULLY. About $7,700. George A. Borden, Dir.

Ohio, Dayton—City let contract temporary bridge over Miami River at Millers Ford to C. C. HODGEON; about $4,800.

Ohio, Napoleon—(Official)—County let contract 20 bridges to W. S. ALBRINK, Napoleon. About $9,800. Noted July 6.

Ohio, Wauseon—County let contracts for bridges as follows: No. 314 to BROOKVILLE BRIDGE CO., Brookville; No. 315 to W. S. ALLBRICK, Napoleon; No. 319 to A. B. MENGKRICK, Napoleon; Nos. 316½, 317, 318 and 320 to F. KLING, Wauseon.

Ind., Decatur—City let contract bridge in Blue Creek Township to BURK CONSTRUCTION CO. About $6,890.

Ind., Greenfield—City let contracts for repairing bridges to A. CHAPPLE, Fortville, GEORGE CRIDER, and HOOTEN & SON, Greenfield.

Mich., Harrison—County let contract truss bridge Grant Township to BEACH MANUFACTURING CO., Charlotte. About $4,000.

Ind., Indianapolis—Bd. Pub. Wks. let contract bridge over Pleasant Run at Villa Ave. to AMERICAN CONSTRUCTION CO., about $17,900. B. J. T. Jeup, City Engr. Noted May 25.

Mich., Marshall—(Official)—City let contract concrete girder bridge in Sect. 19, Marengo Township to WYNKOOP & McGORMLEY CO., Toledo, about $8,750. Noted June 1.

Mich., Monroe—City let contract 2 bridges over Raisin River to HANNEMAN BROS., Detroit, $55,739. Noted Jan. 6.

Mich., St. Johns—County Drain Comr. let contract 4 bridges to BEACH MANUFACTURING CO., Charlotte, $7,900.

Mich., Saginaw—(Official)—City will repair Bristol St. bridge by day labor. About $15,000 H. H. Eymer, City Engr. Noted July 6.

Ill., Lewiston—Fulton County let contract bridge on Route 5 to MILLER & HUSBAND, Springfield, $6,899. Noted June 29.

Iowa, Cedar Falls—City let contract bridge over Dry Run to THOR CONSTRUCTION CO., Cedar Falls. About $11,190.

Iowa, Floris—City let contract bridge over Soap Creek to OTTUMWA SUPPLY AND CONSTRUCTION CO., about $13,900.

Iowa, Independence—County let contract 12 bridges to ALFRED OLSEN, Equitable Bldg., Des Moines. About $14,387. Noted June 29.

Minn., Crockston—County let contract bridge over Judicial Ditch No. 60 to GREAT NORTHERN BRIDGE CO., Minneapolis.

Kan., Phillipsburg—(Official)—County let contract steel truss bridge near Long Island and 4-span rein.-con. bridge near Glade to CANTON BRIDGE CO., Kansas City, Mo. About $5,325. Noted June 29.

Neb., O'Neil—County let contract bridge over Niobrara River to WESTERN BRIDGE AND CONSTRUCTION CO., Omaha. About $9,600.

N. D., Wahpeton—(Official)—County let contract steel bridge across Bois de Sioux River to GREAT NORTHERN BRIDGE CO., Minneapolis. Noted June 29.

Mont., Coberg—County let contract bridge across Milk River at Coberg to O. E. PEPPARD, Missoula, $6,737.

Mont., Dillon—Beaver Head and Silver Bow Counties let contract bridge across Big Hole River to CLIFTON, APPLEGATE & TOOLE, Anaconda, $14,200. Noted June 29.

Mo., Delalis—(Official)—Sedalia Twelve Mile Rd. Dist. let contract 5 rein.-con. bridges to LONG CONSTRUCTION CO., Kansas City, about $5,600. C. A. Thomas, Supt. Noted June 29.

Tex., Austin—Contract let to McDONALD CONSTRUCTION CO. rein.-con. bridge over Waller Creek at 19th St.

Tex., Dallas—City let contract Commerce St. bridge to R. J. ESTEP & CO., about $22,000. H. Moseley, City Engr. Noted June 29.

Okla., Tulsa—County Comrs. let contract 17 steel bridges to CANTON BRIDGE CO., Canton, about $32,330. L. Cline, Tulsa, County Clk. Noted June 15.

Tex., Granger—City let contract 2 bridges to AUSTIN BROS., San Antonia.

Wash., Kiona—County let contract bridge across Yakima River between Kiona and Benton City to COAST BRIDGE CO. About $15,700.

Wash., Seattle—(Official)—City let contracts bridges as follows: Rein.-con. bridge at Trent Ave. and concrete bridge and viaduct at Division St., to WASHINGTON PAVING CO., 1706 L. C. Smith Bldg., Seattle, about $108,443 and $93,613; also 3 steel bridges to ILLINOIS STEEL CO., about $33,888. Noted June 29.

Calif., Fillmore—Bd. of Supvr. let contract rein.-con. bridge across east channel of Sespe Creek to L. C. RUDOLPH, about $9,850. Noted June 22.

Calif., Santa Barbara—City let contract rein.-con. bridge over San Antonio Creek, to MUNOZ & MUNOZ, Central Bldg., Los Angeles, about $9,973.

Calif., Santa Barbara—City let contract rein.-con. bridge to J. C. Lillis, Santa Barbara, about $8,000. Noted June 22.

Calif., Yreka—(Official)—County let contract suspension bridge across Klamath River to CORTLAND BRIDGE CO. About $5,400. Noted June 22.

Man., Dauphin—City let contract for bridge across Valley River as follows: Steel superstructure to L. O. BEAM, 623 25th St., E., Saskatoon; about $6,970; substructure to A. SCOBIE, 74 Isabel St., Winnipeg. Noted June 15.

WATER-WORKS

Proposed Work

Mass., Boston—City receiving bids July 24 for water gate valves. George F. Finneran, Supt.

Mass., Worcester—City plans reservoir at Howland Hill. George W. Batchelder, Gen. Supt.

N. Y., Dunkirk—City Comrs. recommended to improve water-works and electric-light plant. About $200,000. W. H. Shelton, City Engr.

N. Y., New York—(Borough of Manhattan and Bronx)—(Official)—Comr. Water Supply receiving bids July 25 for c. i. pipe, special and valve box castings, valve and double nozzle fire hydrants. William Williams, Comr.

N. Y., New York—(Borough of Manhattan and Bronx)—(Official)—Comr. Water Suply receiving bids July 25 for water mains in University Ave. William Williams, Comr.

N. Y., Rochester—Eastman Kodak Co. plans water-works.

N. J., Perth Amboy—Water Comrs. soon let contracts for pipe and specials for collecting mains at Runyon. About $10,000.

N. J., Skillman—Bd. Mgrs., State Village for Epileptics, receiving bids July 24 for improving water system.

Penn., Nescopeck—City making plans for water-works. About $70,000.

Penn., Philadelphia—City plans water mains in number of streets. A. J. Fuller, Gen. Supt.

W. Va., Shepherdstown—Shepherdstown Light and Water Co. plans water-works.

Ga., Brunswick—Mutual Light and Water Co. plans water-works. About $92,250. J. M. Armstrong, Supt.

Ga., Monroe—City does not plan to improve water-works as noted in June 22 issue.

Fla., Arcadia—City receiving bids July 24 for water-works. Noted Apr. 20.

Miss., Coffeyville—City voted $15,000 water bonds.

La., Oakdale—City plans water-works. About $40,000.

Ohio, Alliance—City will sell $120,000 water-works bonds Aug. 7. C. O. Silver, Audr.

Ohio, Coshocton—(Official)—Dir. Pub. Saftey receiving bids Aug. 10 for pump, pump pit and suction main. Noted June 8 and July 13. (See adv. July 13 issue.)

Ohio, Dover—City receiving bids July 24 for water-works. P. W. Hill, Dir. Pub. Ser. Noted Mar. 23.

Ohio, Ironton—City receiving bids July 28 for enlarging water-works. F. A. Ross, Clk.

Ohio, St. Mary's—City appropriated $43,000 for water and electric-light plant.

Ohio, South Charleston—Bd. Trus. Pub. Affairs receiving bids Aug. 1 for water-works. S. S. Rankin, Clk. Noted June 22.

Ohio, Sylvania—City sold $8,500 water-works bonds.

Ind., Evansville—Bd. Pub. Wks. to build well and pumping station at Water and Division St. and pipe line to connect well with plant at Indiana St. and Elsas Ave.

Ill., Claremont—City voted $18,000 water-works bonds.

Ill., Dixon—City Supervisor receiving bids Aug. 1 for 2 pump houses, steel tank and tower and accessories State Colony for Epileptics. Frank Whipp, Suprv. Noted July 13.

Iowa, Cedar Falls—City plans water mains E. H. Streeter, Supt.

Iowa, Clinton—Clinton Water Works Co. plans to extend water-works. W. L. Meeker, Supt.

Iowa, Iowa City—City plans to vote on $25,000 water-works bonds. W. A. Hostelter, Supt.

Minn., Duluth—City plans water main in East 4th St. About $22,864.

Minn., Duluth—City plans water main over Tischer's Creek bridge. About $21,186. L. Merritt, Comr.

Minn., Madison—City receiving bids July 24 for $2[illegible] 000 water-works and sewer bonds.

Minn., Mora—See item under "Sewers."

Minn., Thief River Falls—City sold $30,000 water bonds. Leonard Peterson, Supt. Noted Apr. 6.

Kan., Parsons—City votes Aug. 1 on $318,000 water bonds. Noted May 25.

Neb., Oxford—City plans election to vote on $10,000 water-works bonds. Grant & Fulton, Lincoln, Engr. A. Arnsberger, Clk. Noted July 13.

Neb., Wahoo—City receiving bids July 26 for extending water system and electric-light plant. About $10,000. G. F. Loder, Clk.

Neb., York—City plans mains on East and West 5th St.

N. D., Ellendale—City passed ordinance for water mains in 2nd St. and 6th Ave. A. E. Miller, Mayor.

N. D., Garrison—City receives bids July 24 for water-works. P. R. Atkinson, Bismarck, Consult. Engr. Noted July 13.

Wyo., Lovell—City making plans for water and sewer systems. About $60,000.

Mont., Kalispel—North Idaho and Montana Power Co., plans pumping plant.

Mo., Chaffee—City voted $34,000 water and sewer bonds. Edward E. Wall, Comr. Noted July 13.

Mo., Steelville—City to vote on $11,800 water-works bonds. Noted Dec. 9.

Tex., Beaumont—City plans to vote on $100,000 water-works bonds. Noted Feb. 24.

Tex., Kennedy—City receiving bids Aug. 15 for water-works. Noted June 22.

Tex., Kingsville—Bd. Comrs. receiving bids July 26 for c.-i. water pipe, special castings, valves, etc. H. C. Porter, City Engr. (See adv.)

Tex., Lubbock—City plans enlarging water-works.

Tex., Melvin—E. M. Ehlers, State Sanitary Engr., recommends filter plant.

Tex., Weimar—City soon receives bids for water-works. Noted June 22.

Okla., Cleveland—City does not plan election to vote on $50,000 water-works bonds. Noted July 13.

Okla., Shawnee—City to soon vote on water-works bonds.

N. M., Tucumari—City plans reservoir. D. C. Fox, Supt.

Utah, Salt Lake City—City plans reservoir in Little Cottonwood Canyon. C. F. Barrett, Supt.

Ariz., Wickenburg—Citizens voted $5,000 water-works bonds. H. P. Ward, Town Clk. Noted June 8.

Calif., Berkeley—Chamber of Commerce making plans for water mains. About $55,000.

Calif., Coalinga—City election Aug. 14 to vote on $14,000 fire protection system bonds. Noted June 1.

Calif., Pasadena—San Gabriel Valley Water Co., Oak Knoll Ave. and Canyon Dr., plans 8-in. main in Oak Knoll Ave. and pumping plant. J. E. Carpenter, Supt.

Calif., San Francisco—(Official)—Bd. Pub. Wks. receiving bids July 26 for making core borings for Hetch Hetchy project. Noted Feb. 3. (See adv.)

Calif., Yreka—Council plans to install water meters.

Que., Hull—Council plans mains, about $35,000.

Ont., Hespeler—City plans to extend water system. Address M. E. Jardine, Hespeler.

Ont., Woodbridge—City making plans for water-works. Noted Feb. 24.

Bids In and Contracts Awarded

Mass., Newburyport—City let contract water pipe to PORTLAND STONE WARE CO., 49 Federal St., Boston.

N. Y., Batavia—City let contract filter plant and pumping station to HYDRO CONSTRUCTION CO., Buffalo; filter equipments to PITTSBURGH FILTER CO., Pittsburgh; pumping engine to WORTHINGTON PUMP AND MACHINERY CORPORATION. Noted Mar. 16.

N. J., Mt. Holly—Northampton Township let contract well to S. J. TAYLOR, Mt. Holly. Noted June 8.

N. J., Perth Amboy—City let contract filter plant to LEVERING & GARRIGUES CO., 552 W. 22nd. St., New York. About $15,000.

Penn., Brookville—City let contract pumping station to JOHN CARR, Brookville. About $5,000. Fred D. Sayer, Supt.

Penn., Monessen—Tri-Cities Water Co. let contract force mains to BROOK & CORNISH, Watertown. Noted June 8.

Penn., Mt. Joy—City let contract pumping station to J. M. ESHELMAN, Landisville. G. H. Brown, Pres.

Ga., Tifton—City let contract tank and tower to R. D. COLE MANUFACTURING CO., Newman.

Miss., Baldwyn—(Official)—City let contract water-works and electric-light plant to FAIRBANKS MORSE CO., New Orleans and ELECTRIC APPLIANCE CO., New Orleans. About $10,000. Noted June 29.

La., Shreveport—City let contract mains to W. M. MOORE, Lampasas. Noted Apr. 6.

Tenn., Greenville—City let contract standpipe to PITTSBURGH-DES MOINES STEEL CO., Curry Bldg., Pittsburgh, $5,250.

Ohio, Canton—City let contract 1,500,000-gal. pump to HILL-TRIPP PUMP CO., Anderson, Ind.

Ill., Berwyn—(Official)—City let contract 12-in. c. i. pipe in 30th St. and Oak Park Ave. to H. D. HALLET, Aurora. About $9,546. Noted June 29.

Ill., Dunning—Bd. of Administration let contract extending water mains to and from new power plant at Chicago Hospital to JONES & JACOBY, 145 South 5th St., Chicago. Noted June 15.

Ill., Hillsboro—City let contract dam and spillway to M. C. CONNORS & CO., 14 South Canal St., Chicago. About $17,000. Noted June 8.

Minn., McKinley—City let contract water-works to BOYLAN & CO., Virginia.

Kan., Clay Center—City rejected bids for water-works and electric light. Work to be done by day labor. About $4,500.

Neb., Bellwood—(Official)—City let contract water-works to ALAMO ENGINE SUPPLY CO., Omaha. About $7,692. Noted June 22.

N. D., Harvey—(Official)—City let contract water connections and laying pipes to KARL MOSE, Harvey. Noted June 29.

Ont., Sault Ste Marie—City defeated $400,000 water bonds. Noted Apr. 13.

B. C., Vancouver—City rejected bids for 75,000 lin.ft. welded steel pipe. New bids. J. L. Bricken, Supt.

SEWERS

Proposed Work

N. Y., Border City—Semet-Solvay Co. plans sewage plant at Border City.

N. Y., Fulton—City plans storm sewer in 7th St. About $6,000. G. C. Hill, City Engr.

N. Y., New York—(Borough of Manhattan)—Borough Pres., Municipal Bldg., receiving bids July 26 for sewer in portion Lafayette St.

N. Y., New York—(Borough of Queens)—Borough Pres., Borough Hall, 5th St. and Jackson Ave., Long Island City, receiving bids July 24 for sewers and appurtenances in various streets.

N. Y., New York—(Borough of Richmond)—Borough Pres., Borough Hall, St. George, New Brighton, receiving bids July 27 for temporary sanitary sewers in portion University Pl. and Forest, Hart and Laurel Ave.

N. Y., Olean—City voted $12,000 sewer bonds, West State St. E. E. Allen, City Engr. Noted June 8.

N. Y., Salamanca—Citizens voted $12,000 sewer bonds. C. C. Cheney, City Engr. Noted May 18.

N. Y., White Plains—Council plans sewers portion Mamaroneck Ave. and sewer line from Lenox Ave. northerly. G. R. Byrue, City Engr.

N. J., Bernardsville—Town plans sewage plant.

N. J., Far Hills—L. V. Ludlow, C. Welsh and W. Flomerfelt formed Sewerage Comn. to install sewer system and disposal plant.

N. J., Newark—City plans sewers in Foster St. and Frelinghuysen Ave. M. R. Sherrard, City Engr.

N. J., Pleasantville—City made plans for sewer system. Remington & Vosburg, Camden, Engr.

N. J., Rahway—(Official)—City receiving bids July 25 for sewers. Franklin Marsh, City Engr. (See adv. July 13 issue)

N. J., Ridgefield Park—(Official)—Bd. Comrs., Municipal Bldg., 232-34 Old Hackensack Rd., receiving bids Aug. 1 for sewers, treatment works, etc., for sewer diversion and treatment. Lederle & Provost, 39 West 38th St., New York, Consult. Engr. (See adv.)

Penn., Bellwood—K. Allen, 1235 Municipal Bldg., New York, approved plans of city for sewage plant. H. Linton, Altoona, Engr. Noted Jan. 20.

Penn., Philadelphia—See item under "Streets and Roads."

Penn., Pittsburgh—S. G. Dixon, State Health Comr., recommends storm and sanitary sewer for Nine Mile Run problem also disposal plant. About $450,000. R. Swan, City Engr.

W. Va., Wellsburg—Council received plans for sewer system. About $25,000. Noted Feb. 10.

La., Shreveport—City rejected bids for sewer extensions. Will readvertise. Noted Dec. 23.

Ky., Lexington—(Official)—Bd. Comrs., City Hall, receiving bids Aug. 8 for sewage-disposal works. J. J. O'Brien, City Clk. Solomon-Norcross Co., Atlanta, Ga., Consult. Engr. (See adv.)

Ohio, Bellefontaine—Council passed resolution for sewer in Stanton Ave. C. A. Inskeep, City Engr.

Ohio, Conneaut—City receives bids about Sept. 1 for sewers on Cleveland and Buffalo St. S. W. Mahaffey, Dir. Pub. Ser.

Ohio, London—City receives bids about Aug. 1 for sewer in Center St. and Glade Hill. Clark & McCafferty, Engr.

Ind., Crawfordsville—City receiving bids July 24 for sanitary sewer in East Main St. J. A. Cragwell, City Engr.

Ind., Indianapolis—Bd. Pub. Wks. receiving bids July 28 for sewers in Congress, Shrivers and Merriam St. B. J. T. Jeup, City Engr.

Ind., Richmond—City making plans sanitary and storm sewer in alley between 12th and 13th St. F. R. Charles, City Engr.

Iowa, Charles City—City election soon to vote on $75,000 sewer bonds. W. S. Beattie, City Engr. Noted May '18.

Minn., Hopkins—City making plans for sewer system. E. A. Close, Recdr. J .F. Druar, 312 Commercial Bldg., St. Paul, Engr. Noted May 25.

Minn., Mabel—City receives bids in Aug. for sewer system and disposal plant. J. F. Druar, 311 Commercial Bldg., St. Paul, Consult. Engr. Noted July 6.

Minn., Madison—See item under "Water-Works."

Minn., Mora—City receives bids in Aug. for sewers and water-works. J. F. Druar, 311 Commercial Bldg., St. Paul, Consult. Engr. Noted May 25.

Minn., St. Paul—City receiving bids July 24 for sewer in Stanford St. H. W. Austin, Pur. Agt. Oscar Claussen, City Engr.

Kan., Downs—City receives bids soon for sewer system. E. T. Archer & Co., New England Bldg., Kansas City, Mo., Engr. Estimated cost, $25,000. Noted May 25.

Kan., Nickerson—City receiving bids July 31 for extending sewers. E. F. Turbush, City Clk. Black & Veatch, 507 Interstate Bldg., Kansas City, Mo., Engr. Noted June 29.

Neb., Oxford—City making preliminary plans for sewer system, about $15,000. Grant & Fulton, 510 Bankers Life Bldg., Lincoln, Engr. Noted July 13.

Neb., Red Cloud—City making plans sewers. About $15,000. Grant & Fulton, Bankers Life Bldg., Lincoln Engr. Noted July 6.

N. D., Garrison—City receiving bids July 24 for sewer system. F. Gehner, Audr.

Mont., Walkerville—City plans sanitary sewers in Daly St.

Mo., Hamilton—City making plans sewer system. About $30,000. E. T. Archer & Co., 514 New England Bldg., Kansas City, Engr.

Mo., St. Joseph—(Press)—City election soon to vote on $550,000 sewer bonds. C. P. Hoff, City Engr.

Tex., Arlington—City plans sewage plant. M. G. O'Neill, Dallas, Engr.

Tex., Jefferson—Jefferson Sanitary Sewer Co. making plans for sewage plant. E. Campbell, Austin, Engr.

Tex., Lufkin—City plans to improve sewage treatment plant. R. B. Bledsoe, City Health Officer.

Tex., Sequin—City election July 27 to vote on $36,000 sewer bonds. Noted June 8.

Tex., Victoria—City will sell $35,000 sewer bonds.

Okla., Poteau—City election July 29 to vote on $15,000 sewer bonds. Noted Feb. 10 under "Water-Works."

Wash., Enumclaw—Council voted to build sewer system.

Ore., Hubbard—City plans sewer system.

Calif., Chino—City lets contract for sewer system about Aug. 1. About $58,000. Olmsted & Gillelen, Hollingsworth Bldg., Los Angeles, Engr.

Calif., Healdsburg—Bd. Trus. plans to improve sewer system.

Calif., Madera—City plans disposal plant.

Calif., Maricopa—City making plans for septic tank. L. L. Coleman, City Engr.

Calif., Riverside—City receiving bids July 26 to extend sewer system. A. P. Campbell, City Engr. Noted May 18.

Calif., San Jose—Bd. Superv. receiving bids Aug. 6 for sewer to connect county infirmary with city sewer system. Address County Clk., San Jose.

N. B., Frederictown—A. McKnight, City Engr., recommended repairing sewers. About $10,000.

Que., Hull—Council plans sewers, about $20,000.

Ont., Hamilton—E. R. Gray, Asst. City Engr., recommended bulkhead at Sherman Ave. and Barton St. to prevent flooding, also changes at Ferguson Ave. disposal plant. Plans will be made.

Ont., London—City plans sewage plant. About $200,000. W. N. Ashplant, Engr.

Ont., Pembroke—County plans to extend sewer system and install pumping plant. About $50,000.

Ont., Toronto—Bd. Control, City Hall, receiving bids Aug. 1 for storm overflow sewer in Sparkhill Ave. Noted Apr. 20.

Bids In and Contracts Awarded

N. Y., New York—(Borough of Bronx)—(Official)—Borough received low bids sewers in portions various streets from Degnon Contracting Co., 30 East 42nd St., $277,085; P. B. Stanton, 2327 Walton Ave., $26,425; Anita Construction Co., 2975 Marion Ave., $31,317. Noted July 6.

Penn., Bellwood—Borough plans sewer system. J. Lupfer, Pres. Council.

Ohio, Ashtabula—City let contract sewers to C. HUKERY, Cherry St., about $4,000.

Ohio, Toledo—City let contract Sanitary Sewer No. 30 to T. J. KELLY, Toledo.

Ind., Indianapolis—City let contract sewer Tremont Ave. to COLUMBIA CONSTRUCTION CO., Indianapolis, $23,564. Noted May 18.

Ill., Sparta—(Official)—City let contract sewers and disposal plant to INLAND CONSTRUCTION CO., Syndicate Trust Bldg., St. Louis, $44,769. Noted July 6.

Wis., Superior—City let contract sewer in Itasca Sewer Dist. No. 8 to PASTORETTE CONSTRUCTION CO., Duluth, about $19,000. Noted June 15.

Iowa, Dyersville—Council let contract sewer to J. A. DANIELS, Dubuque.

Iowa, Mason City—City let contract sewers A. L. WILSON CO., Mason City.

S. D., Aberdeen—City let contract sewer to BURGARD BROS.

Wyo., Basin—City let contract sewers in northern section to GORDON & TAYLOR, Denver. Noted Mar. 30.

Mont., Bozeman—City let contract sewers to WHITE CONSTRUCTION CO., Bozeman, $40,907. Noted Apr. 20.

Tex., Childress—City let contract sewer system to DALTON & CAMPBELL, Dallas, $32,000. Noted Mar. 16.

Tex., Corsicana—City received low bid for activated sludge sewage-disposal plant from E. M. Scheflow, Elgin, Ill., $7,984. Noted June 1.

Tex., Gonzales—City let contract sewer extension to E. L. DALTON, Dallas.

Ariz., Tucson—City let contract 3 mi. outfall sewer to T. J. SHEA, 1800 Oxford Ave., Los Angeles, $41,750, 17 mi. north section, $73,612. Noted March 30.

Calif., Auburn—City let contract septic tank to HARD BROS., Modesto, $6,677. Noted July 6.

B. C., Esquimalt—City let contract sewers to WARREN & STANCOMBE, about $8,000. Noted Oct. 7.

GARBAGE

Proposed Work

N. Y., New York—(Borough of Manhattan)—J. T. Fetherston, Comr. St. Cleaning, Room 1247, Municipal Bldg., receiving bids July 27 for (a) removal of snow and ice during winter season 1916-1917; (b) removal snow and ice during winter season 1916-17 by snow removal dist.; (c) same in borough of Bronx; (d) same in borough of Brooklyn.

Iowa, Des Moines—City receiving bids Aug. 2 for incinerator. H. Susong, City Clk. F. N. Carrs, City Engr. Noted Apr. 13.

Minn., St. Paul—City plans disposal plant. About $200,000. M. N. Goss, Comr. Pub. Wks.

Wash., Spokane—City made plans for smokestack at crematory. About $7,000. M. MacCartney, City Engr.

Sask., Saskatoon—City election July 26 to vote on $100,000 bylaw for incinerator. A. Leslie, Clk. Noted May 4.

Bids In and Contracts Awarded

N. Y., Rochester—City let contract incinerator to DECARIE INCINERATOR CO., McKnight Bldg., Minneapolis. Noted Feb. 10.

Ohio, Canton—City let contract garbage collection for 1 year to SANITARY GARBAGE CO.

STREETS AND ROADS

Proposed Work

Mass., Brookline—City plans concrete road on Beacon St.

Mass., Cambridge—City appropriated $94,500 for streets.

Mass., Quincy—City plans to spend $30,000 for improving streets.

Conn., Hartford—(Official)—State Highway Comn., Capitol, receiving bids July 26 for highways and bridges in various townships. C. J. Bennett, State Highway Comr. (See adv.)

N. Y., Albany—(Official)—State Highway Comn., 55 Lancaster St., receiving bids Aug. 7 for constructing and repairing highways in various counties. Edwin Duffey, Comr. (See adv.)

N. Y., New York—(Borough of Manhattan)—Borough Pres., Municipal Bldg., receiving bids July 26 for repaving portions 37th, Mangin, 28th and 125th St.

N. Y., New York—(Borough of Richmond)—Borough Pres., Borough Hall, St. George, New Brighton, receiving bids July 26 for paving portion Decker Ave.

N. Y., New York—(Borough of Richmond)—Borough Pres., Borough Hall, St. George, New Brighton, receiving bids July 24 for repaving portion Arrietta Ave.

N. Y., New York—(Borough of Richmon —Borough Pres., Borough Hall, St. George, New Brighton, receiving bids July 25 for paving portion Pelton Ave.

N. Y., New York—(Borough of Richmon —Borough Pres., Borough Hall, St. George, New Brighton, receiving bids July 28 for repaving portion New York Ave.

N. Y., Olean—City plans to pave West State St., about $48,000. E. E. Allen, City Engr.

N. Y., Watervliet—(Official)—Water Bd. receiving bids July 31 for grading and riprapping Cherry Valley and Osborne's Corners Rd., 2 culverts, building bridge abutments and raising wooden bridge. Solomon, Norcross & Keis, Watervliet, Engr. (See adv.)

N. J., Audubon—Borough receiving bids July 31 for improving various streets. C. Bennett, Clk. J. J. Albertson, Engr. (See adv.)

N. J., Belleville—City plans to improve and extend Van Houten Pl. F. T. Shepard, City Engr.

N. J., Camden—City plans to pave Erie, Linden, Cramer, Morton, Elm and 27th St. L. E. Farnham, City Engr.

N. J., Fairview—Mayor and Council receiving bids July 24 for improving Bullsferry Rd. H. Lycus, City Clk.

N. J., Kearney—City plans to improve Passaic Ave. H. P. Kreimer, City Engr.

N. J., Newark—Bd. St. and Water Comrs. passed resolutions to pave portion Cedar Ave., asphalt.

N. J., Newark—Bd. St. and Water Comrs. receiving bids July 27 for improving portion Ave R. M. R. Sherrard, City Engr.

N. J., New Brunswick—City Comrs. passed resolutions to improve Washington, Hamilton, Bishop, Redfond, French, Sandford and Hartwell St. A. Atkinson, City Engr.

Penn., Bradford—City received only 1 bid paving, about $28,000. Will probably readvertise. B. A. Wise, City Engr. Noted June 29.

Penn., Canonsburg—City voted $30,000 paving bonds.

Penn., Carbondale—City plans paving and curbing portion Park St. J. A. Saxe, City Engr.

Penn., Clearfield—Citizens voted $75,000 street improvement bonds. Noted June 8.

Penn., Dorranceton—(Kingston post office)—City making plans paving Ely St. Paxson & Morgan, Second National Bank Bldg., Wilkes Barre, Engr.

Penn., Dunmore—City receives bids in about 6 weeks for paving portion East Drinker St. J. R. Hennigan, City Engr.

Penn., Dunmore—City receives bids in about 6 weeks for paving and curbing Madison and Adams Ave. J. R. Hennigan, City Engr.

Penn., Eddystone—Borough soon receives bids for paving various streets. About $40,000. A. F. Damon, Jr., Post Office Bldg., Darby, Engr.

Penn., Greensburg—(Official)—Council receiving bids Aug. 7 for improving portion Fulton St. J. Neal, City Engr.

Penn., Lebanon—(Official)—Council receiving bids July 26 for paving portion Church and Willow St. and Doe and Walnut Alley. D. M. Sharp, City Clk. P. A. Volcker, Engr. (See adv. July 13 issue.)

Penn., Pennbrook—City made plans paving Main St. Noted Feb. 24.

Penn., Philadelphia—Council voted $42.451,000 paving, sewers, etc. bonds. C. Albright, City Engr.

Penn., Swarthmore—City plans paving and curbing Ogden and Park Ave., macadam and concrete. R. P. Green, Stephen-Girard Bldg., Philadelphia, Engr.

Penn., Tarnetum—City plans paving and curbing West 8th Ave. and Main and Summit St. A. Thompson, Engr.

Penn., West Homestead—(Homestead post office)—Borough plans $50,000 paving bond issue.

Penn., Woodlawn—Borough making plans paving and curbing Station St., Copeland and Highland Ave. and Bank Alley. W. M. Anderson, Engr.

Md., Baltimore—City making plans paving portion Baltimore St., asphalt. R. M. Cooksey, City Engr.

Md., Baltimore—Baltimore Paving Comn. making plans paving Hamilton and Mulberry St., brick. R. K. Compton, 214 East Lexington St., Chn.

W. Va., Clarksburg—Harrison County receiving bids Aug. 2 for 3 mi. highway. G. M. Harbert, Clarksburg, County Rd. Engr.

W. Va., Elkins—Randolph County rejected bids road improvements Leadville Dist. T. Pritt, Elkins, County Clk. New bids. Noted June 22.

W. Va., Fairmont—Marion County receiving bids Aug. 3 for about 32 mi. roads, Lincoln Dist. Address A. G. Martin, Fairmont, Clk. Noted May 4.

W. Va., New Martinsville—County receiving bids Aug. 9 for 15-mi. road in Church Dist. Address County Clerk, New Martinsville.

W. Va., Pennsboro—City voted $20,000 street improvement bonds. Chavet & Armstrong, Fairmont, Engr.

N. C., Danbury—City votes Aug. 15 on road bonds.

N. C., **High Point**—City votes Aug. 15 on $[illegible],000 street improvement bonds.

S. C., **Greenville**—City to vote on $65,000 bonds for paving 21 streets. W. F. B. Haynesworth, City Engr.

Ga., **Thomasville**—(Official)—City receives bids for about 2,540 lin.ft. 5-ft. sidewalk and 2,200 lin.ft. 24-in. curb and gutter, concrete. W. Miller, Chn. Sts. (See adv. July 13 issue.)

Fla., **Arcadia**—City receiving bids July 24 for 158,000 sq.yd. paving. Kraven & Kimmel, Parker Bldg., Engr.

Fla., **Deland**—County receiving bids Aug. 7 for improving highway in New Smyrna and Deland-Lake Helen Special Road and Bridge Dist. Address County Clk., Deland.

Ala., **Bay Minette**—(Official)—Bd. Revenue and Rd. Comrs. Baldwin County, Bay Minette, received no bids portion Delta Highway connecting Baldwin and Mobile Counties. New bids Aug. 16. J. M. Garrett, Rd. Engr. Noted June 1.

Ala., **Camden**—County receives bids Aug. 14 for clay and sand or clay and gravel road. Blair Hughes, Camden, County Rd. Supvr.

Ala., **Gadsden**—City plans to pave South 4th St. About $7,900. E. Smith, City Engr.

Miss., **Corinth**—(Official)—Alcorn County receiving bids July 31 for 15 mi. gravel road. Address N. C. Rinehart, Secy. Rd. Comrs., Corinth. Noted June 22.

Miss., **Houston**—(Official)—Bd. Superv. Chickasaw County receiving bids about Aug. 1 for road work in Beats Nos. 1 and 4. M. Smitle, Kosciusko, Engr. Noted July 6.

Miss., **Lexington**—County receives bids July 28 for 26½ mi. gravel and macadamized roads. Address County Clk., Lexington.

Miss., **Louisville**—County plans improving highway in Dists. 2 and 3. X. A. Kramer, Magnolia, Engr.

Miss., **Macon**—(Official)—Noxubee County lets contract asphaltum or tarvia for dressing rock roads in August. J. A. Tyson, Macon, Chancery Clk. Noted June 15.

Miss., **Yazoo City**—County defeated $85,000 road bonds in Beat No. 2. Address County Clk., Yazoo City. Noted June 15.

La., **Baton Rouge**—(Official)—State Legislature postponed for 2 years election to vote on $15,000,000 highway bonds. Noted July 6.

Tenn., **Athens**—McMinn County plans election to vote on $300,000 road bonds. Address County Judge, Athens.

Tenn., **Clifton**—County votes Sept. 24 on $150,000 road bonds. Address County Clk., Waynesboro.

Tenn., **Decaturville**—County plans to vote road bonds. Address County Clk., Decaturville.

Tenn., **Maryville**—County votes Aug. 21 on $200,000 road bonds. Address County Clk., Maryville.

Tenn., **Paris**—County votes Aug. 3 on $250,000 road bonds. Address County Clk., Paris.

Tenn., **Shelbyville**—Bedford County plans election to vote on road bonds. Address County Clk., Shelbyville.

Tenn., **Waverly**—Humphreys County plans road to McEwen, about $15,000. E. L. Peoples, Waverly, County Engr.

Tenn., **Waynesboro**—Wayne County election Aug. 3 to vote on $150,000 road bonds.

Ohio, **Alliance**—Council passed ordinance to improve portion 11th St. W. Shectler, City Engr.

Ohio, **Alliance**—Council passed ordinance to improve portion East Grand St. W. Shectler, City Engr.

Ohio, **Bowling Green**—City receiving bids July 28 for improving Oak St. J. E. Baird, Dir. Pub. Ser.

Ohio, **Bowling Green**—City receiving bids July 28 for improving South Summit St. J. E. Baird, Dir. Pub. Ser.

Ohio, **Bowling Green**—City receiving bids July 28 for improving Pike Ave. J. E. Baird, Dir. Pub. Ser.

Ohio, **Cincinnati**—Bd. Park Comrs. receiving bids July 27 for crushed stone, screenings, and torpedo sand for road in Sec. No. 3. L. A. Ault, Pres.

Ohio, **Cincinnati**—Bd. Park Comrs. receiving bids July 27 for asphaltic binder on road in Sec. No. 3. L. A. Ault, Pres.

Ohio, **Cleveland**—Cuyahoga County passed resolution to pave 6 mi. West Lake Rd., Bay Village. W. A. Stinchcomb, County Surv.

Ohio, **Cleveland**—Cuyahoga County plans to improve Brookpark, Anderson, East Bagley, Windfall and Som Center Rd. No. 6. W. A. Stinchcomb, Cleveland, County Surv.

Ohio, **Findlay**—Council passed ordinance to improve portion Beach Ave. U. K. Stringfellow, City Engr.

Ohio, **Lima**—(Official)—City receives bids next year for paving portion Holmes Ave. A. L. Metheany, Dir. Pub. Ser. C. Bryson, City Engr. Noted July 6.

Ohio, **Marietta**—City soon receives bids for paving Chestnut, Vine and Holley St., brick. F. Gates, City Engr.

Ohio, **Marion**—Council passed ordinance to improve portion Chase St. E. S. Oult, City Engr.

Ohio, **Niles**—Council passed resolution to improve portion Allison St. H. W. Turner, City Engr.

Ohio, **Niles**—Council passed resolution to improve portion Olive St. H. W. Turner, City Engr.

Ohio, **Port Clinton**—City receiving bids Aug. 8 for paving and curbing 11 blocks, concrete. About $10,000. W. H. Williamson, Clk.

Ohio, **Xenia**—City making plans paving portion Rogers St. About $5,000. C. W. Whitman, Dir. Pub. Ser. Noted June 15.

Ohio, **Yellow Springs**—City plans to macadamize Main St. P. Shuemaker, City Bldg., Engr.

Ind., **Indianapolis**—Bd. Pub. Wks. receiving bids Aug. 9 for paving portion Central Ave. B. J. T. Jeup, City Engr.

Ind., **Indianapolis**—Bd. Pub. Wks. receiving bids Aug. 7 for paving portion Broadway. B. J. T. Jeup, City Engr.

Ind., **Indianapolis**—Bd. Pub. Wks. receiving bids Aug. 14 for paving portion Meridian St. B. J. T. Jeup, City Engr.

Ind., **Indianapolis**—Bd. Pub. Wks. receiving bids July 28 for improving portions Lynn, Balsam, Coliseum and Hemlock Ave., Fall Creek Blvd. and Pkway. and 18th St. B. J. T. Jeup, City Engr.

Ind., **Indianapolis**—Bd. Pub. Wks. receiving bids July 28 for sidewalks portion Ralston St. B. J. T. Jeup, City Engr.

Ind., **Jeffersonville**—City plans improving portion 6th St. V. W. Lyon, City Engr.

Ind., **Laporte**—Laporte County receiving bids Aug. 10 for road in Springfield Township. Address F. A. Hausheer, Laporte, Audr.

Ind., **Laporte**—Laporte County receiving bids Aug. 10 for road in Center and Scipio Townships. Address F. A. Hausheer, Laporte, Audr.

Ind., **Orleans**—Town defeated $59,000 road bonds.

Mich., **Allegan**—City plans paving Trowbridge St. J. W. Peet, City Clk.

Mich., **Sault Ste. Marie.**—City plans paving Magazine St., about $8,826. R. A. Frederick, City Engr.

Ill., **Chenoa**—Bd. Local Improvements receives bids, about $27,600.

Ill., **Elgin**—City plans paving portion Commonwealth Ave., brick, about $6,700. M. H. Brightman, City Engr.

Ill., **Elgin**—City making plans paving Bluff City Blvd., brick, about $25,000. M. H. Brightman, City Engr.

Ill., **Freeport**—City receiving bids paving Chestnut, American and Pine St., macadam. C. S. Hepner, Engr.

Ill., **Granite City**—Bd. Local Improvements receiving bids Aug. 1 for 11,500 sq.yd. rein-con. paving on E and North 24th St., about $45,000. E. Hall, Engr.

Ill., **Peoria**—City plans paving portion McClure Ave. L. D. Jeffries, City Engr.

Ill., **Quincy**—Bd. Local Improvements plans paving Vine St., brick. J. M. Gardner, Engr.

Ill., **Rockford**—City making plans paving various streets, macadam and brick. E. Main, City Engr.

Ill., **Springfield**—City plans to pave portion West Grand Ave., $12,072. W. Seeley, City Engr.

Ill., **West Dundee**—City made plans paving portion 2nd St., brick. G. Nelson, Sherwin Bldg., Elgin, Engr.

Wis., **Eau Claire**—City plans paving Menomonie St. with cement and bituminous concrete.

Wis., **Elkhorn**—City plans to pave 8 streets. A. C. Oleson, City Clk.

Wis., **Fond du Lac**—Bd. Pub. Wks. receiving bids July 26 for portion Macy and Main St. L. P. Peeke, Comr.

Wis., **Hudson**—County plans to spend $30,000 for roads. H. S. Offerdahl, Hudson, County Clk.

Wis., **Tomah**—City receives bids paving portion Kilburn Ave., concrete. W. Koopman, City Clk.

Wis., **Tomah**—City receives bids paving portion Oak St. W. Koopman, City Clk.

Iowa, **Clinton**—(Official)—City receiving bids Aug. 8 for 16,868 sq.yd. brick or asphaltic concrete pavement, 10,607 lin.ft. curb and gutter. F. W. Leedham, City Clk., J. G. Thorne, City Engr. (See Adv.)

Iowa, **Des Moines**—Council voted to spend $36,810 for paving St. Catherine and Dorchester St. K. Kastberg, City Engr.

Iowa, **Dubuque**—City plans paving West 3d, 10th and Walnut St. F. J. McNulty, City Engr.

Iowa, **Sioux City**—Council passed resolution to pave portion 14th, Vine, Ridge and South Newton St. T. H. Johnson, City Engr.

Iowa, **Waverly**—City plans paving portion Bremer Ave., brick or concrete. C. A. Cool, 123 Bremer Ave., Engr.

Kan., **Hutchinson**—City sold $95,000 street improvement bonds. G. L. McLane, City Engr.

Neb., **Beatrice**—City to repave District No. 3.

Neb., **Plattsmouth**—City plans paving Chicago Ave. About $30,000.

Neb., **Sidney**—Cheyenne County plans to grade 30 or 40 mi. road. L. H. Bordwell, Sidney, County Surv.

Mont., **Butte**—Council plans paving South Montana St. J. J. Armstrong, City Engr.

Mont., **Great Falls**—City receiving bids July 25 for 20,000 sq.yd. paving. L. B. Ebenson, City Engr.

Mont., **Missoula**—City lets contract soon for 181,296 sq.ft. paving Higgins Ave. E. S. Hathaway, City Engr.

Mo., **Cameron City**—City plans to pave 3rd St.

Mo., **Excelsior Springs**—County voted $1,250,000 road bonds. Address County Clk., Excelsior. Noted May 18.

Mo., **Jefferson City**—County will vote Aug. 1 on $300,000 bonds, $250,000 for roads, $50,000 for culverts. Address County Clk., Jefferson City. Noted July 13.

Mo., **Kirksville**—City plans to pave Illinois and High St. C. Downing, City Engr.

Mo., **Maryville**—County voted $25,000 road bonds. Address County Clerk, Maryville.

Mo., **St. Louis**—Bd. Pub. Ser., City Hall, receiving bids July 28 for improving portions Dale Ave. E. R. Kinsey, Pres.

Mo., **Sedalia**—Council passed resolution to improve portion 13th St. F. T. Leaming, City Engr.

Mo., **Stanberry**—Citizens voted $20,000 paving bonds. Noted May 25.

Mo., **Washington**—City plans paving Main St.

Ark., **Conway**—Council plans paving 10 blocks in Sixth Dist.

Ark., **Little Rock**—City plans paving portion Prospect Ave. H. Levenson, City Engr.

Ark., **Pine Bluff**—(Official)—Jefferson county receiving bids Aug. 10 for 40 mi. hard surface road in Rd Impvt. Dist. No. 15. J. P. Walt, Pine Bluff, Chn. Rd. Comrs. (See Adv.)

Tex., **Bonham**—Fannin County election Aug. 4 to vote on $135,000 road bonds. Address County Clk., Bonham.

Tex., **Corpus Christi**—City voted $150,000 paving and bluff improvement bonds. H. A. Stevens, City Engr. Noted June 22.

Tex., **Dallas**—City plans paving portion Virginia Ave., bitulithic. H. Moseley, City Engr.

Tex., **El Paso**—City plans to pave Florence St. George Espy, City Engr.

Tex., **Frost**—Navarre County, Rd. Dist. No. 4, voted $180,000 road bonds. Address County Clk., Corsicana. Noted June 8.

Tex., **Sinton**—(Official)—San Patricio County, Sinton Dist., defeated $100,000 road bonds. Noted June 22.

Tex., **Sinton**—(Official)—San Patricio County, Sodville Dist., defeated $10,000 road bonds. Noted June 29.

Tex., **Sinton**—(Official)—San Patricio County, Odem Dist., defeated $50,000 road bonds. Noted June 29.

Okla., **Duncan**—County plans to vote on $25,000 road bonds. Address County Clerk, Duncan.

Okla., **Purcell**—County voted $12,000 road bonds. Address County Clk., Purcell. Noted June 15.

Okla., **Sayre**—(Official)—Beckham County defeated $10,000 road improvement bonds, Merritt Township. Noted July 6.

Idaho, **Kellogg**—Council plans paving ½ mi. Main St. About $10,189.

Idaho, **Kellogg**—City plans concrete pavement on Market St. F. S. Callaway, City Engr.

Idaho, **Lewiston**—City plans to pave 7th and 8th St.

Idaho, **Twin Falls**—City soon lets contract paving Shoshone St. About $28,360. J. A. Bybee, City Engr.

Utah, **Salt Lake City**—City receiving bids July 27 for paving 21st South St., concrete, and Herbert and Michigan Ave., bitulithic. S. Q. Cannon, City Engr.

Wash., **Palouse**—City soon lets contract paving Bridge, Beach and K St. J. J. Johnson, City Clk.

Ore., **Hubbard**—City plans paving.

Ore., **McMinnville**—County plans 3 mi. hard surface road. Address County Clk., McMinnville.

Calif., **Auburn**—City voted $25,000 paving bonds. M. H. Wallace, City Clk.

N.B., **Sackville**—Council plans to extend sidewalks, about $5,000.

Que., **Westmount**—Council to spend $22,500 for asphalt paving. P. E. Jarman, Engr.

Ont., **Chatham**—Council to pave 3,700 sq.yd., concrete. W. A. Hammond, Chn.

Ont., **Merritton**—City plans paving and sidewalks. About $6,000. F. Rutherford, 24 Queen St., St. Catherine, Engr.

Ont., **Windsor**—City plans paving, asphalt. About $50,000.

Man., **Brandon**—J. A. McGillivray, Highway Comr., Manitoba, recommended building Brandon-Carberry Rd., about $200,000.

Man., **Winnipeg**—Provincial Government plans road to Rice Lake, about 18 mi. T. H. Johnson, Minister Pub. Wks.

Man., Winnipeg—City will pave portion McGregor St. About $20,000. W. P. Brereton, City Engr.

B. C., Victoria—City plans to repave portion Johnson St.

Bids In and Contracts Awarded

Maine, Lewiston—City let contract sidewalks various streets to S. D. TILTON.

Mass., Agawam—State Highway Comn., Boston, received low bid section State Highway, from D. O'Connells Sons, Holyoke, $23,000.

Mass., Boston—City received low bids 21,850 sq.yd. paving various streets, (a) sheet asphalt, (b) Topeka, (c) bitulithic, from: Central Construction Co., 228 Southampton St., Roxbury, (a) $51,506, (b) $51,721; Warren Bros. Co., 59 Temple St., (c) $62,567.

Mass., Bryantville—City let contract highway work to POWERS BROS., Brockton. About $22,680.

Mass., Dartmouth—State Highway Comn., Boston, received low bid section State Highway, Acushnut Construction Co., New Bedford, $13,880.

Mass., Dudley—State Highway Comn., Boston, let contract section State Highway to LANE CONSTRUCTION CORPORATION, Meriden, Conn., $15,277.

Mass., Fall River—City let contract paving during year to WARREN BROS. CO.

Mass., Mattapoisett—State Highway Comn., Boston, received low bid section State Highway, Acushnut Construction Co., New Bedford, $11,380.

Mass., North Adams—State Highway Comn., Boston, received low bids section State Highway, J. H. Ferguson, Dorchester, $15,264.

Mass., Northbridge—State Highway Comn., Boston, received low bid section State Highway, Southbridge Engineering and Supply Co., Southbridge, $23,415.

Mass., Oxford—State Highway Comn., Boston, let contract section State Highway to LANE CONSTRUCTION CORPORATION, Meriden, Conn., $12,297.

Mass., Washington—State Highway Comn., Boston, let contract section State Highway to R. F. HUDSON, Melrose, $42,224.

Conn., Ansonia—City let contract paving portion Jackson St. to J. DAVIDSON, $4.828.

Conn., Bristol—City let contract curbing Hull and Pleasant St. to SPERRY MASTROBATTISTO.

Conn., Greenwich—Highway Comn. let contract paving to LONG BROS., 80 State St., Hartford, about $67,000. Noted June 15.

Conn., Hartford—State Highway Comn. let contracts road work: East Hartford Township, L. SUZIO CONSTRUCTION CO., Colony St., Meriden, $7,402; Clinton Township, Nichols Ave., J. ARBORIO, 36 Ward St., New Haven, $8,039. Noted June 29.

Conn., Wallingford—(Official)—City let contract 4,000 sq.yd. concrete paving to T. KEARNEY, Meriden, $1.48 per sq.yd. Noted June 29.

N. Y., Albany—(Official)—State Highway Commission received low bids for highways in various counties from: Road No. 1405, Thompsons Lake-Van Auken Corner-Albany County, 2.93 mi.: C. S. Mathusa, Albany, $35,875; Albany Construction Co., Albany, $36,182; D. I. Snell & Co., Canajoharie, $38,283. Road No. 1380, Jamestown-Ashville, Chautauqua County, 5.65 mi.: Fulton Engineering Co., Inc., Walton, $123,126; George L. Maltby, Jamestown, $133,608; J. A. Hughes & Co., Jamestown, $134,096. Road No. 1381, Fredonia-South Dayton, Part 3, Chautauqua County, 3.90 mi.: No bids. Road No. 1156, Oxford Village, Chenango County, 0.82 mi.: A. B. Haight, Oxford, $15,414; Frank A. Bushley, Norwich, $16,587; Nash & Griffin, Norwich, $16,945. Road No. 1376, Bull Run-Bleecker, Fulton County, 2.80 mi.: Eastover Construction Co., Inc., Utica, $45,834. Road No. 1377, Gloversville-West Perth, Fulton County, 3.74 mi.: Eastover Construction Co., Utica, $40,608. Road No. 1403, Alabama-Batavia, Part 1; Genesee County, 7.94 mi.: Michael F. Ripton, Rochester, $90,091; Cold Spring Construction Co., Buffalo, $91,801; L. H. Brotsch, Rochester, $92,861. Road No. 1363, Paines Hollow-Stone House, Herkimer County, 5.7 mi.: Albany Construction Co., Albany, $56,909; Newport Construction Co., Herkimer, $68,363. Road No. 1374, Oneida City-William St., Madison County, 0.91 mi.: Joseph Walker Construction Co., Albany, $11,651; Ft. Schuyler Construction Co., Inc., Utica, $12,258; H. A. Schaupp, Guilderland, $12,358. Road No. 1392, Rush-Mendon, Part 1, Monroe County, 3.69 mi.: Chambers & Barnes, Rochester, $38,844. Road No. 1393, Scottsville-Rush, Monroe County, 5.27 mi.: L. H. Brotsch, Rochester, $62,500; Frank J. Foote, Nunda, $63,984. Road No. 1344, Green Corner-Francis Pond, Nassau County, 3.38 mi.: No bids. Road No. 773, Weldelville-Lockport, Part 2, Niagara County, 2.38 mi.: No bids. Road No. 1354, Syracuse-Otisco, Part 1, Oswego County, 5.55 mi.: Warner-Quinlan Asphalt Co., Syracuse, $65,602; Frank Malone, Syracuse, $66,748; Mondo Construction Co., Inc., Syracuse, $67,680. Road No. 1413, Hastings-Parish, Onondaga County, 2.04 mi.: Edwin Styring, Theresa, $23,165; Spellman-Oliver Co., Chautauqua, $24,269; Samuel Bonn, Syracuse, $24,286. Road No. 1409, Richfield Springs-Winfield, Parts 1 and 2, Otsego County, 7.87 mi.: J L. Richmond, Hinkley, $124,673; Albany Construction Co., Albany, $131,903; Lane Construction Corporation, Meriden, Conn., $132,445. Road No. 1388, DePeyster-Ogdensburg, St. Lawrence County, 11.16 mi.: Spellman-Oliver Construction Co., Chautauqua, $99,239; Arthur F. McConville, Ogdensburg, $106,940; J. L. Richmond, Hinckley, $109,123. Road No. 5612, Waddington-Massena, Part 1, St. Lawrence County, 9.12 mi.: Mecca Construction Co., Inc., Morristown, $144,783. Road No. 1373, Hurley-Kingston, Ulster County, 2.73 mi.: Philip Kramer, Paterson, $39,551; Fallkill Construction Co., Poughkeepsie, $39,796; Harper & Higginson, Inc., Newburgh, $51,415. Road No. 1059, Clyde-Resort, Part 3, Wayne County, 1.88 mi.: Chambers & Barnes, Rochester, $15,128; Hendrickson-McCabe Construction Co., Syracuse, $15,707. Road No. 1060, Lyons-Sodus Point, Parts 2 and 3, Wayne County, 6.41 mi.: Thomas Grady, Rochester, $56,987; Frank J. Foote, Nunda, $60,477; Frank Malone, Syracuse, $60,825. Road No. 5606, Tuckahoe-White Plains, Part 2, Westchester County, 2.74 mi.: No bids. Repair Contract No. 991, Cattaraugus County, 8.83 mi.: P. H. Murray, Rochester, $29,657; McGreevey, McGuigen & Baum, Elmira, $30,025; Flood & Van Wirt, Hudson Falls, $31,379. Repair Contract No. 941, Delaware County, 5.77 mi.: No bids. Repair Contract No. 989, Erie County, 3.55 mi.: Thomas J. Murray, Leroy, $23,559; Flood & Van Wirt, Hudson Falls, $25,315. Repair Contract No. 937, Nassau County, 1.27 mi.: No bids.

N. Y., Albany—(Official)—State Highway Comn. let contracts constructing and repairing highways as follows: Road No. 948-A, Voorheesville-New Salem, Albany County, 0.17 mi.: BURHAM & ROSE, Albany, $2.212. Road No. 1371, Watervliet-Cohoes, Albany County, 0.88 mi.: SEWAGE DISPOSAL AND WATER PLANT CO., Schenectady, $26,562. Road No. 5610, Montezuma-Port Byron, Cayuga County, 4.39 mi.: SULLIVAN CONSTRUCTION CO., Syracuse, $66,365. Road No. 1027, French Creek-Findley Lake, Chautauqua County, 4.33 mi.: TOWN OF MINA, Findlay Lake, $61,472. Road No. 1378, Elmira-North Elmira, Chemung County, 4.14 mi.: PETER F. CONNOLLY CO., Horseheads, $99,195. Road No. 1394, Norwich-South New Berlin, Part 2, Chenango County South New Berlin-New Berlin, Part 1, 7.09 mi.: PADDELFORD & KING, Sherburne, $90,429. Road No. 1398—Moffittsville-Franklin County Line, Clinton County, 10.46 mi.: RICHARD HOPKINS, Troy, $111,888. Road No. 1412, Wappinger Falls, Village South Ave., Dutchess County, 0.56 mi.: FALLKILL CONSTRUCTION CO., Poughkeepsie, $8,071. Road No. 1410, Westport Village, Main St., Essex County, 1.76 mi.: BLUFF POINT STONE CO., Plattsburgh, $24,163. Road No. 620, Ephratah-Kecks Center, Part 1, Fulton County, 5.13 mi.: BRADY-OLTARSCH CO., INC., New York, $49,044. Road No. 1365, Greenville-Coxsackie, Part 1, Greene County, 2.39 mi.: GEORGE H. McEVOY, Creek Locks, $26,620. Road No. 1346, Frankfort-Gulph, Herkimer County, 5.10 mi.: DALE EBG. CO., Utica, $66,449. Road No. 1360, Munnsville-Pratts Hollow-Pine Woods, Madison County, 6.54 mi.: C. W. TRYON, Poland, $64,672. Road No. 1390, Chili-Coldwater, Monroe County, 2.92 mi.: ROCO CO., INC., Rochester, $36,955. Road No. 1342, Roslyn-Port Washington, Nassau County, 5.24 mi.: THOMAS O'HERN CO., Yonkers, $84,480. Road No. 1117, Rexford Flats-Wait Corners-Groom Corners, Saratoga County, 6.10 mi.: W. G. FOX, Saratoga, $79,254. Road No. 1406, Marion-Williamson, Part 2, Wayne County, 3.67 mi.: HENDRICKSON-McCABE CONSTRUCTION CO., Syracuse, $35,000. Repair Contract No. 945, Fulton County, 0.59 mi.: BURNHAM & ROSE, Albany, $3,814. Repair Contract No. 947, St. Lawrence County, 2.50 mi.: RICHARD HOPKINS, Troy, $11,995. Repair Contract No. 985, Ulster County, 0.83 mi.: JOSEPH WALKER CONSTRUCTION CO., Albany, $5,659. Noted July 13.

N. Y., Albany—(Official)—Low bids received July 14 by State Highway Comn. for constructing and repairing highways from: S. B. Van Wagonen, Inc., Rondout, $48,938; Lane Construction Corporation, Meriden, Conn., $49,831; Albany Construction Co., $53,449. Road No. 1404, Dormansville-South Westerlo, Albany County, 5.62 mi.: Lane Construction Corporation, Meriden, Conn., $65,594; Albany Construction Co., $69,512. Road No. 5608, Machias-Delevan, Part 1, Cattaraugus County, 2.17 mi.: Frank L. Cohen, Buffalo, $32,522. Road No. 5609, Port Byron-Weedsport, Cayuga County, 3.89 mi.: Charles O. McComb, Syracuse, $49,378; John R. Burchill, Syracuse, $52,297. Road No. 1379, Jamestown City, Foote Ave., Chautauqua County, 0.74 mi.: George L. Mallity, Jamestown, $37,721. Road No. 1395, East Guilford-Rockdale, Chenango County, 2.91 mi.: Alfred H. Flynn, Albany, $30,248; Newport Construction Co., Herkimer, $30,270; E. S. Arbogast, Stroudsburg, Penn., $30,065. Road No. 1411, Wadhams Mills-Whallonsburg, Essex County, 4.95 mi.: No bids. Road No. 621, St. Johnsville-Oppenheim, Part 2, Fulton County, 2.90 mi.: D. L. Snell, Canajoharie, $32,267. Road No. 1375, Johnstown City, East Ave., Fulton County, 1.10 mi.: Brady-Oltarsh Construction Co., New York, $13,977; Lane Construction Corporation, Meriden, Conn., $14,012; John P. Dugan Co., Inc., Amsterdam, $14,054. Road No. 1402, Alabama-Batavia, Part 2, Genesee County, 7.60 mi.: Cold Spring Construction Co., Buffalo, $75,837; Lewis H. Brotsch, Rochester, $76,000; Frank J. Foote, Nunda, $79,151. Road No. 1361, Oneida Lake-South Bay and Oneida-South Bay, Part 2, Madison County, 5.65 mi.: John R. Burchill, Syracuse, $54,922. Road No. 1391, Sweden-Walker, Monroe County, 7.93 mi.: William H Madden, Rochester, $66,373; Newport Construction Co., Herkimer, $70,056; F. H. Rh[illegible], Albion, $71,088. Road No. 1343, Westbury-Hicksville, Nassau County, 3.09 mi.: Rush Construction Co., New York, $34,192; Heling Bros., Lindenhurst, $34,900; E. T. Eggleston, Yonkers, $36,[illegible]. Road No. 1356, North Western-Boonville, Part 2, Oneida County, 5.74 mi.: Albany Construction Co., Albany, $69,732. Road No. 5408, Fulton City, East First St., Oswego County, 0.36 mi.: Pathfinder Construction Co., Fulton, $17,663; Samuel Bonn, Syracuse, $18,869. Road No. 1387, Canton Village, West Main St., St. Lawrence County, 0.44 mi.: Arthur F. McConville, Ogdensburg, $5,547; Rock & Griffin Co., Watertown, $5,[illegible]. Road No. 1389, Gouverneur-Edwards, Part 2, St. Lawrence County, 4.60 mi.: No bids. Road No. 5611, Cohocton-Naples, Part 1, Steuben County, 5.76 mi.: Steuben Construction Co., Hornell, $5[illegible],242; Atlanta Construction Co., Atlanta, $54,272; Dale Engineering Co., Utica, $59,092. Road No. 1407, Newark-Sodus, Part 1, Wayne County, 3.97 mi.: Dana W. Robbins, Inc., New York, $31,350; William J. Swartz, Newark, $31,510; Chambers & Barnes, Rochester, $33,440. Road No. 1058, Wolcott-Savannah, Part 3, Wayne County, 2.25 mi.: Steuben Construction Co., Hornell, 14,960; Hendrickson-McCabe Construction Co., Syracuse, $16,188. Repair Contract No. 986, Dutchess County, 1.19 mi.: No bids. Repair Contract No. 969, Erie County, 2.48 mi.: Frank L. Cohen, Buffalo, $26,595; Carlisle O. Landel, Tonawanda, $29,654. Repair Contract 987, Monroe County, 0.79 mi.: Whitmore-Rauber-Vicinius, Inc., Rochester, $25,897; Roco Co., Inc., Rochester, $26,432; Peter F. Connolly Co., Horseheads, $26,768. Repair-Contract 990, Niagara County, 2.22 mi.: No bids. Repair Contract 988, Westchester County: Samuel Beskin, Beacon, $55,059; Harper & Higginson, Inc., Newburgh, $56,671; H. B. Sproul Construction Co., Inc., Peekskill, $62,144.

N. Y., Little Falls—City let contract paving to WARREN BROS. CO., Little Falls.

N. Y., New York—(Borough of Bronx)—(Official)—Borough received low bid repaving portion East 138th St. L. H. Friedman, 31 Union Sq., Manhattan, $44,146. Noted July 6.

N. Y., New York—(Borough of Brooklyn)—(Official)—M. J. O'Hara, $38,424, low bidder paving portion 3rd Ave. Noted June 29.

N. Y., New York—(Borough of Richmond)—Borough received low bid paving portion Fairmount Ave. from C. Vanderbilt, 24 Elizabeth St., West New Brighton, $4,285. Noted July 6.

N. Y., Oneida—(Official)—City let contract paving Cedar St. to WARREN BROS. CO., Boston, $16,345. Noted June 22.

N. J., Jersey City—(Official)—City let contract improving Merritt St. to O'REILLY CONTRACTING CO., INC. Noted July 6.

N. J., Lakewood—(Official)—City let contract paving to J. C. BENTLEY, Elizabeth, $28,727. Noted July 6.

Penn., Ambler—County let contract Sumneytown-Geryville Turnpike to W. EVANS.

Penn., Chester—City let contract paving various streets UNION PAVING CO., 30th and Locust St.

Penn., Ebensburg—Cambria County let contract 690,000 bricks to PATTON CLAY MANUFACTURING CO., Patton, $14,145. Noted June 15.

Penn., Fayette City—County let contract to V. D. GIORNI, Wick Haven Rd., $20,000, Navou Hollow Rd., $12,000.

Penn., Greensburg—(Official)—City let contracts paving: Vine and Steck St. and Perry Ave., JAMES H. OFFUTT, Greensburg, $9,071; Jefferson and Stanton St., L. F. EDWARDS, Greensburg, $7,731. Noted June 22.

Penn., Harrisburg—City received low bid paving 6 streets STRUCKER BROS. & WALTER.

Penn., Johnstown—Cambria County rejected bids for improving portion Laurel Run Rd. Work to be done by day labor under supervision. O. P. Thomas, Engr., Leader Bldg. Noted June 22.

Penn., Luzerne—(Official)—Luzerne County let contract paving approach to Plymouth Bridge, Hastings asphalt blocks, to HERRICK CONSTRUCTION CO., Wilkes-Barre, $6,749.

Penn., New Castle—City let contract paving and curbing 6th and Liberty St. to M. J. SCANLON.

Penn., Norristown—County let contract 6 mi. road to W. EVANS, Ambler.

Penn., Philadelphia—City let contract improving portion Delaware Ave. to E. H. VARE, 1120 Race St., $42,500.

Penn., Washington—(Official)—City let contract paving brick to MACK MANUFACTURING CO. and PENNSYLVANIA CLAY CO.

Penn., West Reading—City let contract paving Penn Ave. to HASSAM PAVING CO., Worcester, Mass., $23,610. Noted Mar. 16.

Md., Baltimore—City let contract paving alleys to NICHOLS BROS., Inc., 214 Courtland St., $6,805. Noted June 22.

Md., Easton—County Comrs. let contract State Aid highway on Peachblossom Rd. to WILLIAM B. SHAFER, 303 5th Ave., New York, about $26,440. Frank W. Seth, Easton, County Rd. Engr. Noted June 22.

Md., Frederick—(Official)—Frederick County received low bid State-Aid Highways from M. K. Grove, Monrovia-Hyattsville Rd., $16,366; Burkittsville-Knoxville Rd., $12,261. Noted June 22.

Md., Towson—Baltimore County let contract paving portion Leeds Ave. to T. MARTIN, Hillside.

Va., Harrisonburg—City let contract paving to BETTS & BOICE, about $47,000.

N. C., Greenville—City let contract 30,000 sq.yd. paving to SOUTHERN PAVING CONSTRUCTION CO., Chattanooga. Noted June 22.

N. C., Marshall—Village let contract asphalt concrete paving to NOLL CONSTRUCTION CO., Chattanooga, Tenn.

Ga., Sandersville—City let contract 30-mi. gravel road to TURNER & MANGUM, Macon.

Fla., Lake City—City let contract paving to ALABAMA PAVING CO., Birmingham. About $30,000. Noted June 15.

Ala., Tuscumbia—(Official)—Colbert County let contract road improvement to JORDAN & PHILLIPS, Lowndesboro, $25,000. Noted June 22.

Miss., Winonah—(Official)—Montgomery County let contract section Jefferson Davis Highway to OWENS CONSTRUCTION CO., Brooksville, $56,220. Noted June 22.

La., New Orleans—City let contract 18,000 sq.yd. paving, 96,000 cu.yd. grading to TEXAS GRADING CO., Houston, Tex. About $53,070.

Ky., Covington—Fiscal Court received low bids Dixie Highway from Covington to Erlanger from: Cooper & Co., Louisville, $64,604; O'Hearn & Metzel, Covington, $71,000; F. A. Levine, Covington, $71,000.

Ky., Dayton—City rejected bids curbing and guttering several streets.

Ky., Jamestown—County Comrs. let contract 10-mi. gravel road to CLAUDE HASS. About $35,000.

Ky., Mt. Sterling—(Official)—City let contract paving to CAREY REED CO., Lexington. Noted June 29.

Ky., Williamsburg—County let contract road work to CARSON & CO., Knoxville, Tenn., $63,000.

Ohio, Alger—(Official)—Village let contract paving Main and Shadley St. to BREWER, TOMLINSON & BREWER, Chillicothe, about $28,000. Noted July 6.

Ohio, Ashland—City let contract improving Sandusky, Arthur and Race St. to D. A. PHILLIPS, Ashland. Noted July 13.

Ohio, Ashtabula—(Official)—City let contract paving various streets to T. P. FITZGERALD, Ashtabula, $34,253. Noted June 29.

Ohio, Canton—Bd. Control let contracts paving to: CLEVELAND-TRINIDAD PAVING CO., 420 Lakeside Ave., N. E., Cleveland, Rowland Ave., $20,056; H. CORL, Park Ave., $6,191; F. DOWNS, Shriver Ave. and Laiblin Pl., $14,393.

Ohio, Chardon—City let contract 6 mi. paving to LOESHER, ROESS & LOESHER, $70,000.

Ohio, Chillicothe—City received low bid paving Bridge St. W. H. Ringwald & Son, $14,700.

Ohio, Cincinnati—Hamilton County received bids paving Reading Rd., D. P. Foley, $58,024; concrete; A. J. Brehm, $80,648, brick; $77,278, brick. Noted June 29.

Ohio, Cincinnati—(Official)—City let contract paving Glenmore and Louis Ave. to KIRCHNER CONSTRUCTION CO., 221 West 9th St. Noted June 29.

Ohio, Cleveland—City let contract paving portion Bulkley Blvd. to CLEVELAND-TRINIDAD PAVING CO., 420 Lakeside Ave. N. E., $22,187. Noted June 29.

Ohio, Cleveland—Cuyahoga County let contract improving East Lake Rd. to CLEVELAND PAVING AND CONSTRUCTION CO., 1128 Citizens Bldg., $18,019. Noted June 8.

Ohio, Columbus—City let contracts paving portions streets as follows: CLEVELAND TRINIDAD PAVING CO., 420 Lakeside Ave., Cleveland, North High St., $27,727, Clinton Heights Ave., $18,367, North Broadway, $24,148; A. G. PUGH, Commerce Bldg., Columbus, Clara St., $20,586; A. W. BURNS & CO., Windsor Ave., $17,435; G. GEIGELE & SON, Bonham Ave., $10,657, alley west of Worthington St., $4,601, Park Ave., $4,969, Oakley Ave., $6,258, Schiller St., $5,483. Noted June 29.

Ohio, Dunkirk—(Official)—Village let contract improving portion Main St. to H. P. STREICHER CO., INC., 319 Terminal Bldg., Toledo, $46,200. Noted July 6.

Ohio, Forest—City let contract paving Dixon St. to McHUGH BROS., Springfield, $4.50 per front ft.

Ohio, Fremont—City let contract paving East State St. to ZIEGLER & REARDON, $29,634.

Ohio, Hamilton—City let contract paving South 7th St. to ANDREWS ASPHALT PAVING CO., $19,987. F. E. Weaver, City Engr. Noted June 22.

Ohio, Lima—City lets contracts paving to JAMESON & BLOSER, Charles St.; H. O. SOLOMON, Franklin Ave.; ANDREWS ASPHALT PAVING CO., Lincoln, Hughes, Richie Ave., Elm and State St. J. I. Heffner, City Clk. Noted June 22.

Ohio, Marietta—City let contracts paving to FORMAN & PUTNAM, $15,000, and CISLER & MORSE, $6,000.

Ohio, New Philadelphia—Tuscarawas County let contract grading Gilmore Hill to F. O. COMPHER, Gilmore.

Ohio, Painesville—City let contract Painesville-Fairport pavement improvement to FRESHWATER & SONS CO., 9703 Madison Ave., Cleveland.

Ohio, Salem—Council let contract paving East 7th St. to J. D. PAXSON, Salem, $10,297. Noted June 22.

Ohio, Springfield—City let contract paving section Main St. to W. F. PAYNE, $19,500. Noted Mar. 16.

Ohio, Troy—County let contract 5.3 mi. Piqua-Sidney Rd. to J. A. WESTRICK, Holgate, $89,899.

Ohio, Utica—(Official)—Village let contract improving 6 streets to HENDERSON BROS., Coshocton, $29,741. Noted June 29.

Ohio, Wauseon—Fulton County let contract Rd. No. 86 to ZELLER & DRUM, Swanton.

Ohio, West Jefferson—(Official)—City let contract paving Walnut St. to ANDREWS ASPHALT PAVING CO., Hamilton, $1.84 per sq.yd. Noted June 29.

Ohio, Youngstown—City let contract improving portion Hezlep St. to M. F. CLARK, $12,185. Noted May 18.

Ohio, Youngstown—City let contract paving Kendall Ave. to TURNER CONSTRUCTION CO., $12,315. Noted June 8.

Ohio, Youngstown—County let contract Sect. 1, Jacobs Rd., to SMITH CONSTRUCTION CO., Youngstown, $32,405.

Ohio, Zanesville—(Official)—City let contract improving portion Market St. to ADAMS BROS. CONTRACTING CO., Zanesville. Noted July 6.

Ind., Covington—(Official)—Fountain County let contract road in Davis Township to F. RUSK, Hillsboro, $6,098. Noted June 29.

Ind., Covington—(Official)—County let contract road to C. IRVIN, $6,098.

Ind., Evansville—Bd. Wks. let contract paving Indiana, Madison and Kentucky Ave. and Illinois St. to WESTERN CONSTRUCTION CO. Noted Apr. 27.

Ind., Frankfort—(Official)—Clinton County let contract gravel road to W. J. NEES, Frankfort, $6,383. Noted June 29.

Ind., Indianapolis—(Official)—Marion County received low bids 2 roads in Center Township from R. C. Bennett & Co., $8,697, and R. E. M. Construction Co., $26,800. Noted June 22.

Ind., Kokomo—(Official)—Howard County let contract road in Union Township to F. DAVENPORT, Kokomo, $5,216. Noted June 29.

Ind., Kokomo—(Official)—Howard County let contract road in Center Township to KOKOMO ASPHALT PAVING CO., Kokomo, $35,200. Noted June 29.

Ind., Lafayette—County let contract road work to G. D. COLE, Lafayette, $13,443.

Ind., Mt. Vernon—(Official)—Posey County received bids road in Marrs Township from L. J. Utley, Mt. Vernon, $11,690; Harmony Township, Arkansas Construction Co., Mt. Vernon, $11,313. Noted June 29.

Ind., Muncie—County let contracts road work to C. V. RECTOR, Jeffreys Rd., $5,000, Hanney Rd., $9,726, Klien Rd., $47,500; E. M. CURTIS, Burd Rd., $9,280; T. F. PRUTZMAN, Ford Rd., $27,642; SULLIVAN & SULLIVAN, Parkinson Rd., $4,375; J. M. SNYDER, Miller Rd., $27,895.

Ind., Peru—(Official)—Miami County let contract gravel and concrete roads in Peru Township to R. N. SULLIVAN, Peru, $45,900. Noted June 29.

Ind., Rensselaer—County let contract roads to O. SOLRIN, Tefft, $6,995.

Ind., Seymour—County let contracts paving to MASTERS CONSTRUCTION CO., Seymour, city street paving, $54,900; JAMES DE GOLYER, Seymour, 2 roads, $68,159. Noted June 1.

Ind., Vincennes—Bd. Wks. received bids paving 2nd St. from Foulks Construction Co., $1.97 sq.yd., brick, and Premier Co., $1.69 sq.yd., asphalt.

Mich., Hartford—City rejected bids for paving. Work to be done by day labor under supervision W. Cleary, Engr., St. Joseph.

Mich., Ontonagon—Ontonagon County let contract 1¼ mi. road to E. TAHTINEN.

Mich., Owosso—Rd. Comrs. let contract 2 mi. State Reward Rd. to L. SIMPSON, $3,300 per mi.

Mich., St. Clair Heights—City let contract paving to T. E. CURRIE CO., McGraw Bldg., Detroit.

Mich., Wyandotte—City let contract sidewalks and crosswalks to W. S. MARTIN.

Ill., Alton—City let contract paving to C. M. HANES, Jerseyville. Noted Apr. 20.

Ill., Aurora—City let contract paving to McCARTHY IMPROVEMENT CO., 214 West 14th St., Davenport, Iowa. About $50,000.

Ill., Cairo—City let contract paving 4th St. to R. L. WILLIAMS, 3d and 11th St., PROSSER & HALLIDAY. Noted June 29.

Ill., De Kalb—City let contract paving to PRONGER & FLETCHER, Blue Island, $37,994. Noted Mar. 16.

Ill., Marion—Bd., Local Improvements let contract paving Dist. No. 12 to MEYER & THOMAS CONSTRUCTION CO., East St. Louis.

Ill., Mendota—City let contract curbing and sewers to D. A. THATCHER & CO., River Forest, $48,455. Noted Mar. 9.

Ill., Paris—City let contract paving Ten Broeck St. to MINK BROS., Paris. Noted May 11.

Ill., Park Ridge—City let contract paving Ashland Blvd. to STANDARD PAVING CO., 29 South La Salle St., Chicago, $21,817. Noted June 29.

Ill., Peoria—City let contract paving portion Underhill St. to J. McALLISTER, Edwards Apts., $5,177.

Ill., Peoria—City let contract paving Peoria Ave. to CANTERBURY BROS., 106 Barker Ave., $12,647.

Ill., Riverside—City let contract paving portion Long Common A to STANDARD PAVING CO., 29 South La Salle St., Chicago.

Ill., Rock Island—City let contract paving portion 7th St. to McCARTHY IMPROVEMENT CO., Davenport, Iowa, $22,430.

Ill., Springfield—State Highway Comn. let contracts road work: Champaign County, C. A. MICHAEL, Mattoon, Sect. F, $11,146, Sect. H, $11,362, Sec. I, STIPES & PILCHER, Champaign, $11,425; Henry County, Sec. C, F. J. WARD, 28 East Jackson St., Chicago, $22,955; Kankakee County, Sec. F, F. L. SHIDLER, Kankakee, $17,867, Sect. G, LEHIGH STONE CO., Kankakee, $8,339; Mason County, Sect. A, JANSEN & ZOELLER, Pekin, $9,972.

Wis., Appleton—County let contract 9-mi. concrete roads in Appleton to SNIDERVILLE & MAGNUSON. Noted June 15.

Wis., Green Bay—City let contract paving 3rd, Charles and Michigan St. to WILLISTON CONSTRUCTION CO., 343 South Dearborn St., Chicago.

Wis., Hurley—(Official)—County Highway Comn. let contract grading 2 highways, about 2¾ mi., and 4 roads, 23,480 ft., to HOGAN, OLSON & MOORE, $12,055. W. D. Tyler, Hurley, County Clk. Noted July 6.

Wis., Madison—City let contract paving West Johnson St. to J. R. CULLINANE, 618 West Dayton St.

Wis., Richland Center—City let contract concrete surfacing on road in Forest to EDWIN KELLY, Cazenovia.

Iowa, Avoca—City let contract 10 blocks paving and curbing to J. A. BEEBE, Omaha, Neb. Noted June 15.

Iowa, Davenport—City let contract paving Scott and Newberry St. to CENTRAL ENGINEERING CO. About $6,230.

Iowa, Davenport—City let contract paving Belmont St. to T. J. McCARTHY. About $8,505.

Iowa, Ft. Madison—City let contract paving to BURLINGTON CONSTRUCTION CO., Burlington. Noted Apr. 13.

Iowa, Muscatine—(Official)—County let contract improving Sects. G and H of Muscatine-Nichols Rd., to E. L. GOCHANOUR, Muscatine. Noted July 6.

Iowa, Sioux City—City received low bid paving portion 6th St. from Jensen & Krage.

Kan., Independence—City let contract sidewalks to CANATSEY & HIBBENS.

Kan., Junction City—City let contract paving Pine and 8th St. to A. JAICKS CO., Kansas City, Mo. Noted May 4.

Kan., Manhattan—City let contract paving portion 3rd St. to WATTS & AMMERMAN, Salina.

Kan., Oswatomie—City let contract cross streets to A. B. FERGUSON, Oswatomie, $12,000.

Neb., Grand Island—(Official)—City let contract pave portion West 2nd St. to E. D. TYNER CONSTRUCTION CO., Kansas City, Mo. Noted May 4.

S. D. Huron—City let contract paving Dakota Ave. to JOHN SPOLLEMBERG, Winnipeg.

Mont., Glendive—City let contract grading and curbing to OLIVER & BRUBAKER, Glendive.

Mo., Bethany—City let contract paving to J. H. SUTTON.

Mo., Fulton—City let contract 2,000 yd. bituminous macadam pavement and concrete curbing to C. T. PETRY. Noted June 15.

Mo., Independence—County Comrs. let contract macadamizing to C. GIDINSKY, 3419 Kenwood Ave. About $21,192. Noted July 6.

Mo., Joplin—City let contract paving portion 20th St. to H. KOST, $10,773. Noted May 25.

Mo., Kansas City—Park Bd. let contract sidewalks portion Ward Pkway, to STANDARD SIDEWALK CO., $4,000.

Mo., Kansas City—Park Bd. let contract paving portion Ward Pkway to F. LORIMER, $20,000.

Mo., Kansas City—Park Rd. let contract guttering portion Ward Pkway. to F. LORIMER, $5,000.

Mo., Kansas City—City let contract paving to E. D. TYNER CONSTRUCTION CO.

Mo., Kansas City—City let contract paving to D. T. BROSNAHAN.

Mo., Kansas City—City let contract paving Prospect Ave. to CLEVELAND TRINIDAD PAVING CO., 420 Lakeside Ave., N. E., Cleveland, $2.17 sq.yd.

Mo., Kansas City—Bd. Pub. Wks. let contract ½ mi. paving to W. HARTE, $2.17 sq.yd.

Mo., Princeton—City let contract paving and curbing to HOOVER BROS. CONSTRUCTION CO., Kansas City, $1.60 per yd.

Mo., St. Louis—Bd. Pub. Ser. received low bids paving portions various streets: Frank A. Stiers, Semple Ave., $14,889, Schiller Pl., $25,117; Skrainka Construction Co., Edwards St., $23,962, Crescent Ave., $7,744; Eyermann Construction Co., Compton Ave., $13,979, Bamberger Ave., $9,161; Perkinson Bros. Construction Co., Fair Ave., $6,234; Frederick Ruecking, Bamberger Ave., $8,966; T. E. Cavanagh, $8,443. Noted June 29.

Mo., St. Louis—(Official)—Bd. Pub. Ser. let contracts improving portions streets to GRANITE BITUMINOUS PAVING CO., Railway Exchange Bldg., Sacramento St., $10,918; F. P. McCORMICK, Kingsbury Bldg., Thurman Blvd., $6,185. Noted June 29.

Mo., Sedalia—City let contract paving to J. W. MENEFEE, Sedalia, curbing to W. A. GRAHAM, Sedelia.

Ark., Ft. Smith—City let contract asphaltic concrete paving to KAW PAVING CO., Topeka, Kan. Noted Apr. 13.

Tex., Cold Springs—County Comrs. let contract sand clay gravel roads District No. 2 to A. H. DAWSON, Shepherd, Tex.

Tex., Galveston—City let contract paving in West End to CLEVELAND-TRINIDAD PAVING CO., 420 Lakeside Ave., N. E., Cleveland, $66,000. Noted July 13.

Tex., Houston—County Comrs. let contract 58,000 sq.yd. wire mesh to reinforce base of roadway to LESTER LEVY, Houston. About $7,500. Noted Apr. 20.

Tex., Karnes City—City let contract paving ALAMO CONSTRUCTION CO., San Antonio, $21,950.

Tex., Terrell—(Official)—City let contract paving portion Nash Ave. to SLINE, LAYDEN & DAVIS, Forney, $1.50 sq.yd. Noted Mar. 2.

Idaho, Boise—City let contract paving to WARREN BROS. CONSTRUCTION CO.

Utah, Salt Lake City—(Official)—City let contracts paving to STRANGE MAGUIRE PAVING CO., Utah Savings & Trust Bldg., $60,099, Extension No. 128. Noted June 15.

Wash., Everett—County let contract 6 mi. Cascade Highway to WEST COAST CONSTRUCTION CO., Madison Bldg., Seattle, $25,000.

Wash., Kent—City let contract resurfacing 21,729 sq.yd. to WASHINGTON PAVING CO., Smith Bldg., Seattle, $15,583.

Wash., Spokane—County let contract 1 mi. road to H. C. ROOT, $12,760.

Ore., Klamath Falls—City received low bid paving from J. H. Garrett, $19,950. Noted Apr. 27.

Ore., Tillamook—City let contract paving various streets to ARENX CONSTRUCTION CO., Salem, $35,155. Noted June 15.

Calif., Berkeley—City let contract improving Tamalpais St. to WESTERN CONSTRUCTION CO.

Calif., Berkeley—City let contract improving Dwight Way to OAKLAND PAVING CO., 5000 Broadway, Berkeley.

Calif., Glendale—City let contract improving portion Pacific Ave. to CORNELL & HENDERSON.

Calif., Hemet—City let contract paving Florida Ave. to CONNER CONTRACTING CO., Higgins Bldg., $11,721. Noted May 18.

Calif., Los Angeles—Los Angeles County received low bid improving Sec. G of Mint-Canyon Rd. from P. A. and C. H. Howard, 2128 Sacramento St., $86,375. Noted June 22.

Calif., Los Angeles—City let contract paving portion Pico St. to COAST CONSTRUCTION CO., 1419 East 29th St., $15,311.

Calif., Los Angeles—County let contract paving portion Los Angeles-Redondo Rd., Rd. Dist. No. 8, to F. HOFFMAN, 111 East 12th St., Long Beach.

Calif., Los Angeles—City let contract improving portion Willowbrook Ave. to H. ROBINSON, $7,243.

Calif., Los Angeles—City received low bid improving 2.62 mi. highway on Vine Ave., Rd. Improvement Dist. No. 55, from Rogers Bros., $15,000.

Calif., Sacramento—City let contract improving 24th St. to A. TEICHERT & SON.

Calif., Sacramento—State Highway Comn. let contract section State Highway in Humboldt County, Div. 1 Route 1, Sec. G, to ELSEMORE & JACOBS, Eureka, $23,080. Noted July 13.

Calif., Sacramento—State Highway Comn. let contract section State Highway in Pentura County to MODERN CONSTRUCTION CO., Los Angeles, $31,948.

Calif., Sacramento—State Highway Comn. let contract section State Highway in Ventura County, Div. 7, Route 2, Sec. C, to J. A. MARSHALL, Berkeley, $37,290. Noted July 13.

Calif., Sacramento—State Highway Comn. let contract section State Highway in Contra Costa County, Div. 4, Route 14, Sec. A, to BLANCHARD-BROWN CO., San Francisco, $32,257. Noted July 13.

Calif., Ventura—County let contract improving 8 mi. Moorpark to Simi Rd. to MESMER & RICE, Marsh Strong Bldg., $15,745.

Ont., Guelph—City let contract sidewalks to PALMER & PALMER.

Ont., Ingersoll—City let contract paving to MUNICIPAL CONCRETE CONSTRUCTION CO., Ingersoll, $35,000. Noted May 25.

Ont., North Bay—City let contract 50,000 sq.ft. sidewalk and crossings to C. SOUCHELLI, North Bay.

Ont., St. Catherines—City let contract 13,800 sq.yd. concrete paving to T. E. RILEY, St. Catherines, $26,560.

Ont., Toronto—City let contracts paving to INTERNATIONAL CONTRACTORS, LTD., Bedford Ave., $4,626, Albertus Ave., $4,739, Soudan Ave., $5,925, St. Clements Ave., $6,232; W. BUSHELL, Blythewood Rd. $4,096

Ont., Toronto—City let contract paving to R. C. HARRIS, Comr. Wks., Vine Ave., $12,963; Spruce Hill Rd. $7,231.

Man., Winnipeg—Bd. Control let contract 250 tons asphalt to IMPERIAL OIL CO., about $6,000.

B. C., Point Grey—City let contract paving portion University Ave. to LEDINGHAM & COOPER, $6,460.

B. C., Port Coquitiam—City let contract improving portion Mary Hill Rd. to J. B. WILSON.

INDUSTRIAL WORKS

Proposed Work

Mass., Pittsfield—Berkshire Mills Supply Co. plans storage building at 47 Clapp St.

Mass., Renfrew—(Adams post office)—Renfrew Manufacturing Co. plans 4-story brick factory, Newton Bond, Renfrew, Arch.

Mass., Taunton—Taunton capitalists making plans for paper mill and box factory. About $750,000. H. L. Gilman, 8 Congress St., Boston, Arch.

Mass., Worcester—Heywood Bros. and Wakefield Co. plan storehouse on Lake St. About $75,000.

R. I., Pawtucket—Crown Manufacturing Co. making plans for addition. C. R. Makepeace, Butler Exchange Bldg., Providence, Arch. Noted June 8.

R. I., Saylesville—Sayles Finishing Co. plans 2 additions.

Conn., Bridgeport—T. J. McNamara Co., 378 Coleman St. making plans for factory. A. C. Kelley, 107 Wall St., Arch.

Conn., Danielson—Connecticut Mills Co., 175 Connecticut Mills Ave., making preliminary plans for addition. Noted Mar. 9.

N. Y., New Rochelle—D. & C. Distributing Co., 185 Madison Ave., New York, plans plant.

N. Y., New York—(Borough of Bronx)—Clay Construction and Building Material Co. plans 6-story ice plant and loft building, 367 East 167th St. S. J. Kessler, 232 East 165th St., Arch. About $75,000.

N. Y., New York—(Borough of Brooklyn)—A. Diedrick, 97 Van Buren St., made plans for garage, about $35,000. W. B. Wills, 1181 Myrtle Ave., Arch.

N. Y., New York—(Borough of Brooklyn)—Gehnrich Indirect Heater Oven Co., 60 Franklin St., making plans for 3-story plant. Francisco & Jacobus, 500 5th Ave., Manhattan, Arch.

N. Y., New York—(Borough of Brooklyn)—McNeil Iron Works, Imley and Pioneer St., plans factory. B. F. Hudson, 319 9th St., Arch. About $10,000.

N. Y., New York—(Borough of Manhattan)—Dept. Water Supply, Gas and Electricity plans 3-story, 50x100-ft. repair shop and garage. W. Williams, Municipal Bldg., Comr.

N. Y., Oswego—Montcalm Dock Co. plans grain elevator. R. A. Downey, Pres.

N. J., Keyport—Aeromarine Plane and Motor Co., New York, making plans for 130x300-ft. factory, about $200,000. Monks & Johnson, 78 Devonshire St., Boston, Mass., Arch. Noted June 8.

N. J., Rutherford—Fuchs & Lang made plans for 1-story addition to factory. About $30,000.

Penn., Allentown—Taylor Engineering Co. plans to spend $1,800,000 to improve plant.

Penn., Chester—Scott Paper Co. making plans for addition. George F. Hardy, 309 Broadway, New York, Arch. About $250,000. Noted Feb. 10.

Penn., Coatesville—Lukens Iron and Steel Co. plans 2-story addition.

Penn., Coshohocken—Duplex Metallic Co. plans 1-story factory.

Penn., Marcus Hook—General Chemical Co. making plans for plant. About $300,000. Westinghouse, Church & Kerr, 37 Wall St., New York, Engr.

Penn., Mt. Carmel—Mt. Carmel Silk Manufacturing Co. making plans for additions. George Keefer. Arch. Ryon Rossdale, Mgr. Noted May 4.

Penn., Philadelphia—Joseph Kopperman & Sons, 407 Florist St., made plans for 2-story addition. F. E. Kahn, 1112 Chestnut St., Arch.

Penn., Philadelphia—National Drug Co., 46 Stenton Ave., made plans for 4-story factory. W. Denny, Hale Bldg., Arch. Noted June 22.

Penn., Philadelphia—R. Parot soon lets contract factory and warehouse at 218 Race St.

Penn., Philadelphia—Philadelphia Ship Repair Co., Mifflin St. Wharf, plans addition. F. J McDonald, Pres.

Penn., Pittsburgh—American Reduction Co plans new de-tinning plant.

Penn., Pittsburgh—American Steel and Wire Co plans additions.

Penn., Pittsburgh—Jones & Laughlin Steel Co granted permit for addition, South 34th St. About $40,000. Noted Jan. 27.

Penn., Scottdale—United States Cast Iron Pipe and Foundry Co. plans addition.

Penn., Williamsport — Williamsport Wire Rope Co. making plans for 1-story addition, about $30,000. A. Rianhard, Masonic Temple Bldg., Arch. Noted June 29.

Md., Baltimore—Air Reduction Co., 50 Broad St., New York, making plans for 1-story, 100x200-ft. factory. About $35,000. Steele & Co., 1600 Arch St., Philadelphia, Engr. Noted June 15.

Md., Baltimore—Davis Bachrach, 16 West Lexington St., plans finishing room and storage building. About $10,000. L. Levi, Real Estate Trust Bldg., Philadelphia, Arch.

Md., Baltimore—Chemical Pigment Corporation, Land Title Bldg, Philadelphia, plans factory at Baltimore. F. S. Haven, 825 Stock Exchange Bldg., Philadelphia, Arch.

Md., Baltimore—J. H. Grimes Packing Box Co., Leadenhall and Stockholm St., plans 2-story factory, about $25,000.

Md., Baltimore—E. H. Koester made plans for 3-story bakery, 644 West Lexington St. J. Freund, Jr., 11 East Lexington St., Arch. Noted June 15.

Va., Norfolk—Seaboard Air Line Ry. to rebuild shops destroyed by fire. W. D. Faucette, Norfolk, Ch. Engr.

W. Va., Cameron—Baltimore & Ohio Railroad Co. to rebuild shops. F. L. Stuart, Baltimore, Ch. Engr.

W. Va., Clarksburg—Owens Bottle Machine Co. plans plant, about $1,000,000. M. J. Owens, Pres.

W. Va., Weirton—Phillips Sheet and Tinplate Co. making plans for 1-story addition. About $200,000. J. E. Collins, Engr. Noted Nov. 25.

N. C., Durham—American Tobacco Co. plans addition to plant. About $100,000.

N. C., Raeford—Raeford Power and Manufacturing Co. plans addition.

S. C., Belton—Blair Mills making plans for new mill between Anderson and Belton. J. E. Spring, Mill Engr.

Ga., Atlanta—Chamberlain-Johnson-DuBoise Co. plans 5-story rein.-con. building. About $150,000.

Ala., Ensley—Tenessee Coal, Iron and Railroad Co. plans to improve plant, about $200,000. G. G. Crawford, Pres.

Ala., Gadsden—Lee W. Murphy, Murphy Transfer Coal and Ice Co. plans ice plant. About $10,000.

Ala., Mobile—Ollinger-Bruce Dry-Docks Co plans enlarging its sheet-metal mill.

Ala., New Decatur—Gulf Refining Co. plans storage house and four 15,000-gal. oil tanks.

Ala., Tuscaloosa—Rosenau Hosiery Mills plans to enlarge plant.

Tenn., Chattanooga—The Nick-A-Jack Hosiery Mills plans manufacturing building, boiler house and dye house.

Tenn., Chattanooga—Sulzberger & Sons Packing Co. plans cotton-oil mill. About $200,000.

Tenn., Memphis—Centennial Milling Co., Seattle, plans new plant. W. H. Burtt, Memphis, interested.

Ohio, Akron—Akron Tire Co. plans new plant.

Ohio, Bowling Green—Urschel Drop Forge Co., recently incorporated, plans plant.

Ohio, Canton—Canton Foundry and Machine Co., 3d St. and Savannah Ave., plans addition to plant.

Ohio, Cincinnati—F. H. Lawson Co. making plans for 2-story factory. Elzner & Anderson, Ingalls Bldg., Arch. Noted June 1.

Ohio, Cleveland—American Auto Trimming Co., 669 Mack Ave., Detroit, plans factory in Cleveland. B. Godfredson, Pres.

Ohio, Cleveland—Atlas Car and Manufacturing Co. plans addition.

Ohio, Cleveland—Chandler Motor Car Co., 131st and St. Clair St., making plans for 1-story addition. Ernest McGeorge, Leader Bldg., Arch.

Ohio, Cleveland—Cleveland Builders Supply Co., Leader-News Bldg., plans warehouse on Denison Ave.

Ohio, Cleveland—Cleveland Provision Co. made plans for 4-story abbatoir. About $200,000. Gardner & Lindberg, Chicago, Arch. Noted May 25.

Ohio, Cleveland—Damascus Manufacturing Co. made plans for 4-story factory on Cassius Ave. About $75,000. Wilbur Watson Co., Leader-News Bldg., Arch. Noted June 22.

Ohio, Cleveland—Elyria Iron and Steel Co. plans 1-story, 158x500-ft. factory. About $100,000. H. B. Wick, 232 East 131st St., Pres.

Ohio, Cleveland—Lindsay Wire Weaving Co., 14025 Aspinwall Ave., plans addition.

Ohio, Cleveland—A. G. McKee Co., Rockefeller Bldg., made plans for 3-story storage building at East 177th St. and St. Clair Ave. Noted June 1.

Ohio, Cleveland—Charles P. Salen, 1422 West 101st St, Cleveland, and C. W. Wanzer, Urbana, plans aëroplane factory.

Ohio, Columbus—Columbus Bread Co., 4th and Lincoln St. plans rebuilding plant destroyed by fire.

Ohio, Steubenville—Armour & Co., Union Stock Yards, Chicago, plans storage building, about $100,000.

Ohio, Toledo—Toledo Buttonless Garment Co. plans new factory.

Ind., Bedford—Diamond Saw Wks. plans plant, 13th St. and Monon R.R.

Ind., Elkhart—Sidney Mercantile Co., Blaine Ave. and 14th St., making plans for addition. About $15,000. A. H. Elwood & Son, 129½ Main St., Arch.

Ind., Evansville—Orr Investment Co. plans 3-story garage on Vine St. to be occupied by Maxwell Motor Car Co.

Ind., South Bend—The International Rubber Co. plans factory for automobile tires.

Mich., Cadillac—Cadillac Produce Co. to build plant.

Mich., Grand Rapids—Stiles Bros. Co. Eastern Ave., S. E., Pere Marquette R.R., to build addition to plant.

Mich., Jackson—L. O. Gordon Co. plans factory. About $10,000.

Mich., Kalamazoo—Acme Universal Joint Co. making plans for plant. E. D. Van Valkenburg, Arch. Noted June 22.

Mich., Ypsilanti—Michigan Crown Fender Co., Cross St. and Huron River, plans addition.

Ill., Alton—Standard Oil Co. plans to improve paraffine factory in Wood River Refinery.

Ill., Chicago—Albright-Nell Co., manufacturer packing house machinery, plans plant on Western Ave. Blvd. About $80,000.

Ill., Chicago—White Laundry Co. making plans for 1-story laundry. R. S. Lindstrom, 3943 Sheridan Rd., Arch. Noted July 6.

Ill., Cicero—Crown Stove Wks., 46th Ave. and 13th St., to build addition, about $10,000.

Wis., Eau Claire—C. W. Cheney Co. plans warehouse, 4-story, 81x90-ft. About $10,000.

Wis., Menasha—John Strange Paper Co. to build new mill.

Iowa, Clinton—City Garage Co. making plans for 1-story, 75x140-ft. garage. About $30,000. J. A. Morrell & Son, 410 Howes Blk., Arch.

Iowa, Davenport—Henry Kehro Packing Co. receiving bids July 26 for 4-story cold-storage plant. Clausen & Krause, Central Office Bldg., Arch. Noted June 29.

Iowa, Marshalltown—Minneapolis & St. Louis R.R. making plans for storage warehouse on Center St. About $15,000. R. G. Kenly, Metropolitan Life Bldg., Minneapolis, Ch. Engr.

Iowa, Sioux City—F. C. Mariner and J. L. Tupy plans building on West 4th and Pavonia St. for manufacturing marble tiling and terrazo.

Minn., Hastings—Shane Bros. & Wilson plan grain elevator, 75,000 bu.

Minn., International Falls—Minnesota & Ontario Power Co. plans 1-story, 250x400-ft. paper plant.

Minn., Newport—Farmers Terminal Packing Co., making plans for packing plant. About $500,000. Hangen & Newstrom, 212 Iron Exchange, Minneapolis, Arch. Noted Feb. 10.

Minn., St. Paul—Fireproof Shingle Co. plans factory. About $10,000,000.

Minn., St. Paul—Specialty Manufacturing Co., 1049 Raymond Ave., making plans for 3-story factory, about $20,000. C. L. Kinport, 417 Essex Bldg., Arch.

Kan., Hutchinson—Four S. Razor Co. making plans for factory on Ave. A. Mann & Gerow, Arch. V. T. Miller, Pres. Noted June 29.

Kan., Plains—Pettit Grain Co., Hutchinson, plans grain elevator at Plains. About $10,000.

Kan., Topeka—A. Marburg, 931 Harrison St., soon receives bids for addition to printing plant, 633 Jackson St., about $10,000. F. C. Squires, 628 Kansas Ave., Arch.

Mo., Joplin—Commerce Mining and Royalty Co. plans concentrating plant.

Ark., Van Buren—Mid-West Coffin Co. plans plant. J. A. Miller, Pres.

Tex., Dallas—Davis Milk Co. plans assembling plant. L. S. Davis, Mgr.

Tex., Dallas—Republic Box Co. plans factory.

Tex., Eagle Pass—United States Indestructible Tile Manufacturing Co. plans factory. About $100,000. F. W. Foust, interested.

Tex., Harrisburg—Petroleum Refining Co. plans refinery. J. S. Cullinan, interested.

Tex., Honea—F. D. Thomas, Dallas, and associates plan plant. About $250,000.

Tex., Houston—Cheek-Neal Coffee Co. made plans for 5-story plant. About $50,000. Noted Mar. 2.

Tex., Houston—Willys Overland Co. plans 5-story plant, Baker and San Jacinto St. A. C. Finn, Arch. G. W. Graham, Pres.

Tex., Leonard—Braly-Ferguson Gin Co. plans cotton gin. About $12,500.

Tex., Palestine—Palestine Grain Co. plans addition, about $10,000.

Tex., San Antonio—Dixie Oil and Refining Co. increased capital $35,000 and plans addition.

Tex., Wichita Falls—Wichita Falls Motor Co. plans addition, about $300,000.

Colo., Brighton—Great Western Sugar Co. plans plant.

Colo., Denver—Martin Bros. & Co. plans addition, about $10,000.

Colo., Denver—Turner Moving and Storage Co. plans warehouse at 5th Ave. and Acoma St., about $100,000. G. Turner, Pres.

Colo., Ft. Lunton—Northern Sugar Co. plans plant near Ft. Lunton. A. B. Brown, 1133 First National Bank Bldg., Denver, interested.

Colo., Wellington—Ft. Collins Milling and Elevator Co., Ft. Collins, plans elevator.

Idaho, Emmett—Boise Payette Lumber Co. plans addition. About $100,000.

Idaho, Rupert—Amalgamated Sugar Co., Ogden, Utah, plans sugar factory.

Nev., Toulon—(Lovelock post office)—-H. M. Byllesby & Co., Chicago, plans quartz mill. About $100,000.

Ore., St. Johns—Portland Woolen Mills, Chamber of Commerce Bldg., Portland, making plans for addition at St. Johns. L. I. Thompson, Portland, Arch.

Calif., Berkeley—California Ink Co. bought site for additions. L. H. Lewars, Mgr.

Calif., Fowler—California Associated Raisin Co. plans plant. About $20,000.

Calif., Porterville—Tule River Packing Co. plans to double capacity of plant.

N. S., Dartmouth—Imperial Oil Co., 918 St. Patrick St., Montreal, plans plant at Dartmouth, about $5,000,000.

Que., Montreal—Price Bros. & Co., Ltd., plan to enlarge pulp mill.

Ont., Chatham—Chatham Packing Co. to build plant on Whitehall St., about $80,000.

Ont., Kingston—Canadian National Features, Ltd., to build factory, about $50,000. J. Shea, 25 Norton Ave., Toronto, Pres.

Ont., Oshawa—Chevrolet Motor Co. making plans for plant, about $60,000. G. Redmond, Arch.

Ont., St. Thomas—Monarch Knitting Co. making plans for factory, about $50,000.

Ont., Toronto—T. Eaton Co., Ltd., Yonge St., plans 12-story factory on Alice St. Noted May 18.

Alta, Calgary—M. Rumley Co., 493 Beveridge Bldg., plans warehouse, about $20,000.

Alta., Calgary—Threshing Machine and Tractor Co. making plans for new plant.

Bids In and Contracts Awarded

Maine, Waterville—Keyes Fiber Co., 47 Reddington St., let contract addition to HORACE PURINGTON CO., 40 Pleasant St., about $20,000.

Mass., Boston—J. H. Broderich to build 5-story garage by day labor. About $80,000.

Mass., Everett—New England Oil, Paint and Varnish Co. let contract tank building to WHITON & HAYNES CO., 200 Devonshire St., Boston.

Mass., Holyoke—Hegy Cleaning and Dyeing Works let contract factory to J. H. FOWLES & SON, 1475 Northampton St. About $50,000.

Mass., Lawrence—Sweeney Realty Co., 316 Essex St., let contract work shop to J. FLANIGAN. About $10,000.

Mass., Springfield—Barney & Barry, Inc., let contract addition to L. H. SCOTT & CO., 20 Belle Ave.

Mass., Springfield—Morris & Co., Union Stock Yards, Chicago, to build cold-storage plant at Springfield by day labor. About $15,000.

Mass., Ware—Ware Realty Co. let contract mill building to H. P. CUMMINGS CONSTRUCTION CO., Ware, $45,287.

Mass., Worcester—Graton & Knight Manufacturing Co. let contract 4-story addition on Franklin St. to E. D. WARD, 82 Foster St. Noted June 22.

Conn., Litchfield—Bantam Anti-Friction Co., Bantam, let contract addition at Litchfield to FLYNT BUILDING AND CONSTRUCTION CO., Palmer, Mass.

N. Y., Albany—Fisk Rubber Co. let contract service station and sales room to F. T. LEY, Springfield, Mass., about $25,000.

N. Y., Albany—C. A. Simons Machine Co., 985 Broadway, let contract factory and machine shop to JOHN DENNIS, Kinderhook, about $10,000.

N. Y., Elmira—Empire Products Co. let contract 3-story cold-storage plant to W. R. COMPTON REALTY AND CONSTRUCTION CO., 210 Lake St. About $25,000. Noted Mar. 2.

N. Y., Elmira—Morrow Manufacturing Co. let contract factory No. 49, Scott St., to W. R. COMPTON REALTY AND CONSTRUCTION CO., $150,000.

N. Y., Ft. Plain—A. A. Warath & Son let contract factory to J. BURNS CO., 420 Bastable Blk., Syracuse, about $20,000. Noted Nov. 18.

N. Y., Gloversville—Fownes Bros. & Co., 102 South Main St., let contract factory to A. E. BRACE CONSTRUCTION CO., 37 Hamilton St. About $25,000.

N. Y., Newburgh—J. Crook, Jr., 110 Broadway, let contract bakery to J. J. CONVERY'S SONS, Washington St., about $11,000.

N. Y., New York—(Borough of Queens)—American Druggist Syndicate, 205 Borden Ave., Long Island City, let contract factory and warehouse to CRAMP & CO., 25 East 26th St., Manhattan, about $125,000.

N. Y., New York—(Borough of Queens)—National Sugar Refining Co. let contract for addition to plant to LEDDY & MOORE, 105 W. 40th St., Long Island, N. Y. About $100,000. Noted Apr. 27.

N. Y., Port Jervis—Katerman & Mitchell Co. let contract silk mill to B. & W. CONCRETE CO., 207 Market St., Newark, N. J.

N. Y., Saratoga Springs—Deyce Lohnas let contract 3-story warehouse to H. CROCKER, 65 Putname St. About $13,000.

N. Y., Schenectady—American Locomotive Co. let contract foundry additions to J. McDERMOTT, 103 Wendell Ave., about $85,000.

N. Y., Syracuse—Crucible Steel Co. of America let contract for wire mill at Anderson Works to E. K. FENNO, North Beech St., $75,000. Noted Jan. 13.

N. Y., Syracuse—M. J. French, 702 Snow Bldg., let contract addition shop and salesroom to DAWSON BROS., Union Bldg., about $30,000.

N. Y., Wausau—Brown Knitting Co. let contract addition to A. FRIEDERICH, INC., & SONS, 710 Lake Ave., Rochester, about $25,000.

N. J., Bloomfield—Scott & Bowne Co., Orange St., let contract addition to McDERMOTT & HANIGAN, INC., 103 Park Ave., New York, about $30,000.

N. J. Newark—Dehls & Stein let contract factory to ARMSTRONG-HILL CONSTRUCTION CO., 109 North Munn Ave., about $14,000.

N. J., Newark—Johnson Leather Co., 768 Frelinghuysen Ave., let contract addition to LEVERING & GARRIGUES CO., 552 West 23rd St., New York., about $40,000.

N. J., Newark—Newark Soap Co. let contract factory to P. E. LACKINSON, INC., 225 South 7th St. About $75,000.

N. J., Pennsgrove—Salem & Pennsgrove Traction Co. let contract shops to C. D. BURNS, Drexel Bldg., Philadelphia. Noted July 6.

N. J., Shady Side—(Edgewater post office)—Bulls Ferry Chemical Co. let contracts alterations to tanning building; piles and excavation, JERSEY CITY PILING AND FOUNDATION CO., Jersey City; alterations and additions, HUGH GETTY, INC., 259 West 26th St., New York.

Penn., Eddystone—Baldwin Locomotive Works let contract 1-story addition to J. R. JACKSON, Philadelphia.

Penn., Erie—Carter Manufacturing Co., 624 North 7th St., let contract factory to SCHICKLER BROS., Marine Bank Bldg., about $12,000.

Penn., Harrisburg—Dives, Pomeroy & Stewart Department Store let contract warehouse to J. W. POMERANG, 1918 North 2nd St., Harrisburg, $45,000. Noted June 8.

Penn., Milesburg—Pitan Metal Co. let contracts addition to RHOADS & KNISLEY, concrete, MORATIO S. MOORE, structural steel. About $30,000.

Penn., Philadelphia—Apt. Bros., 725 Arch St., let contract addition to P. HAIBACH CONSTRUCTION CO., 261 North 26th St.

Penn., Philadelphia—Claude S. Jarvis, Vine St., let contract 3-story rein.-con. factory to HOGG CONSTRUCTION CO., 1634 Sansom St. About $40,000.

Penn., Philadelphia—Philadelphia & Reading Ry. let contract 3-story warehouse, Port Richmond section, to F. W. VAN LOON, Denckla Bldg., about $85,000. Noted July 6.

Penn., Philadelphia—Standard Supply and Equipment Co. let contract 2-story warehouse at 249-53 North Juniper St. to LANSDOWNE CONSTRUCTION CO., Philadelphia.

Penn., Philadelphia—West Philadelphia Stock Yards let contract oil building to I. LEIGHTON, 12th and Cherry St., Philadelphia, about $100,000.

Md., Baltimore—Standard Motor Co. let contract addition to plant on North Eutaw St. to M. C. DAVIS, about $35,000.

Ohio, Alliance—McCaskey Register Co., Rust St., let contract addition to G. NELSON, Public Sq., about $10,000.

Ohio, Cincinnati—Cincinnati Planer Co., South St., Oakley, let contract casting building to S. G. BACKMAN & CO., Cincinnati.

Ohio, Cincinnati—Sullivan Printing Works, 1052 Hulbert Ave., let contract addition to D. HAMINEL BUILDING CO., 2629 Spring Grove Ave.

Ohio, Cleveland—Halle Bros. Co. let contract 4-story warehouse and garage to REAUGH CONSTRUCTION CO., 2835 East 57th St., about $150,000. Noted July 13.

Ohio, Cleveland—National Artificial Silk Co., 735 Central Ave., let contract factory to J. L. STUART, Marshall Bldg. About $450,000. Noted June 1.

Ohio, Cleveland—National Bronze and Aluminum Foundry Co., 2539 East 79th St., let contract addition to G. A. RUTHERFORD, 2160 East 19th St. About $15,000. Noted July 13.

Ohio, Cleveland—Ohio Bronze Powder Co. let contract factory to G. B. McMILLAN CO., 1749 East 55th St., about $12,000. Noted July 6.

Ohio, Cleveland—Steel Products Co., Parkwood Rd., let contract addition to S. EMERSON CO., Engineers Bldg., about $30,000. Noted June 29.

Ohio, Dresden—Dresden Paper Mill Co. let contract factory to W. C. HANDSHY & SON, Zanesville. About $150,000.

Ohio, Elyria—Troxel Manufacturing Co., 332 Power Blk., let contract plant to W. STOLZENBURG & L. A. BURGETT, about $60,000. Noted June 1.

Ohio, Norwood—United States Can Co. let contract storage and office building to F. W. FOLZ & CO., Dayton and Freeman Ave., Dayton. About $15,000. Noted Feb. 17.

Ohio, West Carrollton—American Envelope Co. let contract addition to J. ROUZER CO., 41 Wyandotte St., about $20,000.

Ind., Indianapolis—E. C. Atkins & Co. let contract 2-story factory to W. P. JUNGCLAUS CO., 825 Mass Ave. Noted July 13.

Ind., South Bend—Stephenson Underwear Mills, 332 East Colfax St., let contract addition to E. BURNER, 320 Sycamore St. About $100,000.

Ind., Whiting—Galena Signal Oil Co. let contract oil storage building to ANDERSON-STRANBERG CO., 19 La Salle St., Chicago, about $20,000.

Mich., Detroit—Federal Motor Truck Co., Leavitt and Campbell Ave., let contract motor assembly building to CHAPMAN BROS., Humboldt St.

Mich., Detroit—Peoples Outfitting Co., 42-48 Michigan Ave., let contract garage and stable on Michigan Central R.R. near West Grand Blvd. to GEORGE D. NUTT, 515 Free Press Bldg., Detroit. Noted June 15.

Mich., Detroit—Sewell Cushion Wheel Co. let contract factory on East Hight St. to DE LISLE & COOPER, 37 Campau Bldg., Detroit. Noted Mar. 16.

Mich., Detroit—J. N. Smith Co., 52 Porter St., let contract factory to PIGGOTT REALTY CONSTRUCTION CO., 1312 Kresge Bldg. About $200,000. Noted June 1.

Mich., Holland—Holland Aniline Co. let contract plant to BOOMERS & SMEENGE, Holland, $23,324.

Ill., Chicago—B. R. Baker let contract 1-story warehouse 308 South Green St., to B. & W. CONSTRUCTION CO., 10 South La Salle St., about $10,000. Noted Nov. 4.

Ill., Chicago—Commonwealth Edison Co., 72 West Adams St., let contract 1-story service building, 4001 Clifton Ave., to McCARTHY BROS., 6964 North Paulina St., Chicago, about $85,000.

Ill., Chicago—Dickson Seed Co. let contract warehouse to J. RODATZ, 209 South LaSalle St., about $20,000.

Ill., Chicago—Ellman & Newihes let contract 1-story warehouse, Milwaukee Ave., to H. M. LIPMAN, 3334 Douglas St., Chicago.

Ill., Chicago—J. W. Hoodwin, 2949 West Van Buren St., let contract 4-story garage to J. McHUGH, about $15,000.

Ill., Chicago—James R. McKay let contract 6-story warehouse to G. W. SNYDER, 122 South Michigan Ave. About $180,000. Noted Mar. 30.

Ill., Chicago—Motor Transfer Co., 8915 Baltimore Ave., let contract 1-story garage to RUFFNER BLOSS CO., 108 South La Salle St., about $15,000.

Ill., Chicago Heights—Canedy-Otto Manufacturing Co. let contract addition to CHICAGO HEIGHTS CONSTRUCTION CO., 1533 West End Ave., about $12,000.

Wis., Hudson—Chicago, St. Paul, Minneapolis & Omaha Ry. let contract shops to W. BURMEISTER CO., St. Paul. H Rettinghouse, St. Paul, Ch. Engr.

Wis., Kenosha—Peter Pirsch let contract masonry for factory to G. R. WADE CONSTRUCTION CO. About $15,000. Noted July 13.

Wis., Wausau—Underwood Veneer Co. to build addition by day labor. A. Parsons, 612 Western Ave., Arch.

Minn., Northfield—Standard Oil Co. let contract warehouse to BECKWALL & WIDELL, Mankato, about $30,000.

Minn., Red Wing—Goodyear Tire Co. let contract factory to G. E. PETERSON CO., St. Paul. Noted Apr. 27.

Minn., St. Paul—Foot, Schultze & Co. let contract factory Roberts St. G. J. BRANT CONSTRUCTION CO., St. Paul. About $500,000. Noted Mar. 2.

Minn., St. Paul—St. Paul Milling Co. let contract plant to W. J. HOY CO., St. Paul, $22,000. Noted Apr. 13.

Mo., St. Joseph—Grain Belt Feed Co. let contract buildings to FRANKLIN CONSTRUCTION CO., Chicago, $150,000.

Mo., St. Louis—Christian Board of Publication, 2714 Pine St., let contract plant to J. GREWE CONSTRUCTION CO., Century Bldg. About $30,000.

Mo., St. Louis—L. J. Cohen & Co., 23 Branch St., let contract warehouse to SMITH & SON, 3956 Easton Ave., St. Louis, about $20,000.

Mo., St. Louis—Monsanto Chemical Works let contract service building to KELLERMAN CONSTRUCTION CO., Roe Bldg., about $20,000. Noted Apr. 13.

Mo., St. Louis—George Plant Milling Co. let contract 8-story flour mill at 115-7 Chouteau St. to FRUIN-COLNON CONTRACTING CO., Merchants Laclede Bldg., St. Louis. About $40,000.

Wash., Molson—Molson Union Elevator Co. let contract elevator to PIONEER ENGINEERING AND ELEVATOR CO., Seattle.

Calif., Oakland—Albers Bros. Milling Co. let contract plant to MASOW & MORRISON, 681 Market St., San Francisco, $60,000.

Calif., San Pedro—Modern Laundry and Dye Works let contract brick laundry on West 3rd St. to FRANK COLEGROVE AND F. B. BELLMAN, 577 7th St. About $5,132.

Que., Buckingham—Electric Reduction Co. let contract phosphate manufacturing plant to FOUNDATION CO., Montreal, $50,000.

Que., Montmorency Falls—Dominion Textile Co. let contract factory to A. P. BYERS & CO., 340 University St., Montreal, about $100,000. Noted Mar. 23.

Ont., Ft. William—Grain Growers' Co., Winnipeg, let contract elevator on Port Arthur water front to S. J. McQUEEN, about $700,000.

Ont., New Toronto—Browns Copper and Brass Mills, 21 Lake Shore Rd., let contract rolling mills to McGREGOR & McINTYRE, about $35,000.

Sask., Regina—Canadian Northern Ry. let contract roundhouse and storehouse to G. McLEOD, about $15,000.

B. C., Vancouver—New England Fish Co. let contract repairing warehouse to A. W. QUIST & CO., Hoge Bldg., Seattle, about $30,000.

FEDERAL GOVERNMENT WORK

Proposed Work

Maine, Ft. Williams—Buildings—Constructing Quartermaster rejected bids. Will readvertise. Noted June 15.

N. Y., Buffalo—Dredging—U. S. Engineer Office, Buffalo, receiving bids Aug. 15, Dunkirk Harbor. (See adv.)

Penn., Warrenton—Post Office—James A. Wetmore, Act. Supvr. Arch., Treasury Dept., Washington, receiving bids Sept. 19. (See adv.)

D. C., Washington—Wall—William W. Harts, Col., U. S. A. Executive Officer, receiving bids Aug. 10 retaining wall masonry approaches to Lincoln Memorial, Washington. (See adv.)

S. C., Columbia—Post Office—U. S. Government appropriated $70,000.

La., New Orleans—Pile Bulkhead-Lighthouse Inspector receiving bids Aug. 8, New Canal Light Station. (See adv.)

Ky., Hickman—Federal Building—U. S. Government apprcpriated $7,500.

Mich., Detroit—Post Office—U. S. Government appropriated $1,500,000.

Wyo., Powell—Canal Work—U. S. Reclamation Service, Powell, receiving bids Aug. 18. A. P. Davis, Ch. Engr.

Mont., Malta—Earthwork—U. S. Reclamation Service, Malta, receiving bids Aug. 14, Nelson Reservoir, South Canal, Milk River Project. A. P. Davis, Ch. Engr.

Ark., Rogers—Post Office—U. S. Government appropriated $70,000.

N. M., Carlsbad—Excavation—U. S. Reclamation Service, Carlsbad, receiving bids Aug. 1. A. P. Davis, Ch. Engr.

Ore., Klamath — Bridge Spans — Cato Sells, Comr., Indian Affairs, Washington, D. C., receiving Aug. 7.

Calif., Yosemite Park—Grading—U. S. Government appropriated $75,000 for El Portal-Yosemite Rd.

China, Peking—Ice Plant—Navy Dept. plans repairing.

Bids In and Contracts Awarded

Maine, Rumford—Post Office—Government rejected bids. Noted June 29.

Penn., Philadelphia—Dredging—Government received low bid Delaware River on Mifflin and connecting ranges, Maryland Dredging and Contracting Co., Baltimore, $1.62 cu.yd. Noted July 6.

Penn., Pottstown—Post Office—Government let contract to RICHARDSON & BURGESS, Washington, $69,888. Noted July 6.

D. C., Washington—Cast Iron Pipe—Government received low bids (a) 297 tons c.-i. water pipe, (b) 56 tons c.-i. water pipe specials from: Lynchburg Foundry Co., Lynchburg, (a) $28.90, (b) $60; Glamorgan Pipe and Foundry Co., Lynchburg, (a) $29.10, (b) $60; American Cast Iron Pipe Co., Washington, (a) $29.35, (b) Noted June 22.

La., New Orleans—Light Station—Government let contract Timbalier Light Station to P. ESKALD, Biloxi, $11,799. Noted June 1.

Tex., Galveston—Boat Basin—Blodgett Construction Co., Galveston, only bidder, $11, Noted June 15.

N. M., Jicarillo—Building—Government let contract, Jicarillo Indian School, to W. D. LOVELL, Minneapolis, $14,700. Noted June 29.

Wash., Vancouver—Post Office—Low bids received (a) limestone, (b) sandstone, were Campbell Bldg. Co., Salt Lake City, Utah, (a) $82,587, (b) $82,487; John Wallin, Tacoma, (a) $84,465, (b) $84,286; Sound Construction and Engineering Co., Seattle, (a) $88,663, (b) $88,360. Noted June 8.

Ore., Ft. Stevens—Building—Constructing Quartermaster let contract to UNITED ENGINEERING AND CONSTRUCTION CO., Astoria; about $11,951. Noted June 8.

Calif., San Francisco—Appraiser's Stores—Government let contract repairs to T. F. DOWD, 728 Chestnut St., Oakland, $5,580.

CANALS, DITCHES, IRRIGATION

Proposed Work

N. Y., Albany—Barge Canal Work—Canal Bd. making plans for Greenpoint Terminal, Brooklyn. About $193,500. E. S. Williams, Albany, State Engr.

N. Y., Albany—Barge Canal Work—State Canal Bd. approved plans for junction lock at Mohawk Contract 133. About $47,534.

N. J., Bay Head—(Official)—Dredging—Bd. Commerce and Navigation, State House, Trenton, receiving bids Aug. 1, section proposed inland waterway from Cape May to Bay Head, in Barnegat Bay from Haven's Cove below Mantoloking to Herring Island. B. F. Cresson, Jr., Ch. Engr. (See adv.)

Ga., Savannah—Canal—County plans extension Casey Canal to Savannah River, about $150,000. Address County Clk., Savannah.

Fla., Bunnell—Drainage—J. I. Moody and J. F. Lambert of Bunnell Development Co. and others, interested in drainage system, 53,000 acres, St. Johns County. About $200,000.

Ohio, Lancaster—(Official)—Dredging—Perry and Fairfield Counties receiving bids Aug. 10, Rushcreek Stream, 16.95 mi. About $105,586. C. O. Brown, Engr. Fairfield County. J. Baillie Engr. Perry County.

Ohio, Tiffin—Dredging—County made plans, Rock Creek. About $18,000. Address County Clk., Tiffin. Noted Apr. 20.

Ind., Bloomfield—Ditch—O. Williams, Trus. Stafford Township, receiving bids July 24 improving and cleaning Calico Slash Ditch, Marco.

Ind., Bluffton—Ditches—Wells County receiving bids Aug. 1, repairing and cleaning, Jefferson Township. W. W. Fryback, Bluffton, Township Trustee.

Ind., Brazil—Ditches and Levees—Reservoir Improvement Co. receiving bids July 31. F. A. Kattman, Terre Haute, Engr. E. G. Bush, Clk.

Ind., Brookville—Ditches—Franklin County receiving bids July 24, repairing and cleaning, Springfield Township. Boscoe Hubbard, Brookville, Township Trustee.

Ind., Dunkirk—Drain—Blackford County receiving bids July 25, George Fromeyer, et al. O. H. Devoe, Dunkirk, Drain. Comr.

Ind., Frankfort—Ditches—Clinton County receiving bids July 31, repairing and cleaning, Sugar Creek Township. J. C. Birden, Frankfort, Township Trustee.

Ind., Huntington—Ditches—Huntington County receiving bids July 29, repairing and cleaning, Union Township. L. S. Thomas, Huntington, Township Trustee.

Ind., Lafayette—Ditches—Tippecanoe County receiving bids July 25, repairing and cleaning, Sheffield Township. W. H. Warren, Lafayette, Township Trustee.

Ind., Lebanon—Ditches—Boone County receiving bids July 27, Marion Township. D. J. West, Lebanon, Township Trustee.

Ind., Lebanon—Ditches—Boone County receiving bids July 27, E. J. Hickson, J. S. Cobb, Joseph M. Artman, Union Township. G. W. New, Lebanon, Township Trustee.

Ind., Lebanon—Ditches—Boone County receiving bids July 28, Harrison Township. F. G. Ross, Lebanon, Township Trustee.

Ind., Lebanon—Ditch—Boone County receiving bids July 29, repairing and cleaning, Washington Township. R. C. Love, Lebanon, Township Trustee.

Ind., Marion—Ditches—Grant County receiving bids July 24, repairing and cleaning, Fairmont Township. D. G. Lewis, Marion, Township Trustee.

Ind. Monticello—Ditches—White County receiving bids July 29, Burch and James, W. E. Fox, George Mathew, Princeton Township. E. J. Dibell, Monticello, Township Trustee.

Ind., Monticello—Ditches—White County receiving bids July 31, Liberty Township. C. D. Imler, Monticello, Township Trustee.

Ind., New Castle—Ditch—Henry County receiving bids July 24, Mark Huffman et al., Blue River Township. O. P. Shaffer, New Castle, Township Trustee.

Ind., New Castle—Ditch—Henry County receiving bids July 24, B. O. Post et al., Jefferson Township. C. M. Shortridge, New Castle, Township Trustee.

Ind., Oakford—(Official)—Ditch—N. Main, Trus. Taylor Township, receiving bids July 29, improving and repairing.

Ind., Portland—Ditches—Jay County receiving bids July 25, repairing and cleaning, Knox Township. F. Hartrup, Portland, Township Trustee.

Ind., Rochester—Ditches—Fulton County receiving bids July 25, repairing and cleaning, Henry Township. J. H. Highway, Rochester, Township Trustee.

Ind., South Bend—Ditches—St. Joseph County receiving bids July 28, repairing and cleaning, Center Township. M. Wilhelm, South Bend, Township Trustee.

Ind., Tipton—Ditches—Tipton County receiving bids July 28, Little Wildcat No. 83, W. J. Tyner, No. 72, John N. Bennett No. 218, Prairie Township. Beecher Rayl, Tipton, Township Trustee.

Ind., Warsaw—Ditch—Kosciusko County receiving bids July 24, repairing and cleaning Sellers & Cretcher, Harrison Township. C. A. Williamson, Warsaw, Township Trustee.

Ind., Warsaw—Ditch—Kosciusko County receiving bids July 24, repairing and cleaning J. B. Welch, Harrison Township. C. A. Williamson, Warsaw, Township Trustee.

Ind., Winamac—Ditches—Pulaski County receiving bids July 27, repairing and cleaning, Jefferson Township. G. Fritz, Winamac, Township Trustee.

Ind., Winamac—Ditches—Pulaski County receiving bids July 28, repairing and cleaning, Cass Township. F. Timm, Winamac, Township Trustee.

Ind., Winchester—Ditches—Randolph County receiving bids July 24, repairing and cleaning Payne Rozella and D. E. Barber, Ward and White River Townships. B. E. Hinshaw and E. Evans, Winchester, Township Trustees.

Ill., Rock Island—Drainage—Drury Drainage District sold $58,500 levee and drainage bonds. C. Stickler, Drury, Secy. Noted June 1.

Iowa, Clarinda—Drainage—Page County receiving bids July 27 for new channel East Nodaway Drainage Dist. No. 11. C. W. Duke, Clarinda, Audr. Noted Jan. 6.

Iowa, Jefferson—Drain—Greene County will establish, No. 10. About $210,000. Address County Clerk, Jefferson.

Iowa, Sac City—Drainage—County receiving bids July 27, Dist. No. 56. E. W. Moier, Sac City,, County Audr.

Kan., Cottonwood Falls—Ditch—Cottonwood Valley Dist. plans bond issue.

Neb., Curtis —(Official)— Drainage — Drainage Dist. No. 1, Frontier County, receiving bids Aug. 1, about 50,000 cu.yd. excavation. Towl Engineering Co., City National Bank Bldg., Omaha, Engr.

S. D., Mitchell—Ditch—Davidson County making plans No. 7. J. M. Crampton, Mitchell, Audr.

Mo., Kansas City—Dredging—City sold $100,000 bonds, work in Big Blue River. C. Hill, City Engr.

Tex., Donna—Irrigation—Donna Irrigation Dist. receiving bids Aug. 14, reservoirs, dams, canals, laterals, pumping plants, etc. C. B. Merriwether, Donna, Pres. Bd. Dirs. Noted June 1.

Tex., Eagle—Irrigation—A. B. Mull, Eagle, to install pumping plant on Double Bayou.

Tex., Houston—Dredging—City will make another appropriation of $18,000. E. E. Sands, City Engr.

Tex., Miles—Irrigation—W. R. Newton, Miles, to install system and pumping plant on Concho River.

Tex., San Angelo—Irrigation C. A. Dailey, San Angelo, plans to install pumping plant and system on Oak Creek.

Wash., Enumclaw—Drainage—King County organized district to reclaim 1,600 acres. Address County Clk., Seattle.

Wash., Ferndale—Drainage—City making plans.

Calif., Sacramento—Irrigation—Carmichael Colony Irrigation Dists. Nos. 1 and 2 voted $90,000 bonds. Noted July 6.

Bids In and Contracts Awarded

Mass., Yarmouth Port—Dredging—Harbor and Land Commission received only bid dredging Yarmouth Port, Yarmouth and Barnstable Harbors from Bay State Dredging Co., 70c. per cu.yd.

N. Y., New York—(Borough of Bronx)—Drainage—Bd. Health let contract draining section salt marsh lands in Bronx to U. S. DRAINAGE AND IRRIGATION CO. Noted June 29 .

Fla., Sanford—Drainage—Florida Grove Drainage District let contract 33,000 cu.yd. excavation to W. B. WILLIAMS, Oviedo, 14c. per cu.yd.

Miss., Greenville—(Official)—Dredging—County Bd. Drainage Comrs. rejected bids. To do work by day labor. Noted July 6.

La., Crowley—Drainage—Fourth Ward Drainage District No. 1 let contract to G. B. ZIGLER & CO., Jennings, $9.85 per cu.yd. Noted May 18.

Ohio, East Liberty—Ditch—County let contract, P. J. Humphrey's, to W. S. GREEG, Marysville.

Ind., Valparaiso—Ditch—County let contract Stimson Ditch to PORTLAND DRAINAGE AND TILE CO., Portland, $6,994.

Minn., Blue Earth—Ditch—County let contract Ditch No. 34 to G. E. GILBERTSON & SONS, $25,710.

Minn., Crookston—Ditch—County let contract No. 98 to UNITED DREDGING CO., Grand Rapids.

Minn., Detroit—Ditch—County let contract No. 14 to J. KOHLER, Frazee, about $10,000.

Minn., Jackson—Ditch—County let contract Judicial No. 27 to C. JORGENSEN, Comfrey, $6,454.

Minn., Long Prairie—Ditches—County let contract, Judicial Nos. 29 and 30 to J. NEWVILLE, Long Prairie. Noted Feb. 17

Minn., Windom—Ditch—Cottonwood and Murray Counties rejected bids, No. 18.

Neb., Fremont—(Official)—Ditches—County let contract to D. J. MURPHY, Hedrick, $6,500. Noted June 22.

Tex., Pecos—Irrigation—County let contract reservoir, Dist. No. 1, to A. D. JAMISON, Grand Falls, $124,700.

MISCELLANEOUS

Proposed Work

Mass., East Sandwich—Rearing Pools—Massachusetts Fish and Game Comn., State House, Boston, receiving bids July 25, Sandwich Fish Hatchery.

Conn., Norwich — (Official) — Bulkhead and Dredging—American Straw Bd. Co. receiving bids 1,000 ft. bulkhead with 8,000 yd. dredging, Thames River. Chandler & Palmer, Norwich, Engr. (See adv.)

N. Y., Albany—Park Improvements—City plans to spend $20,000, Beaver Park. I. Wachsman, Secy. Bd. Contract and Supply.

N. Y., New York—(Borough of Manhattan)—Market House—Fish Realty Co. made plans for 3-story, 75x98-ft. About $10,000. C. B. Comstock, 110 West 40th St., Arch.

N. Y., Utica—Park Improvements—Park Bd. plans. About $15,000. E. M. Swiggett, Supt. Parks.

N. J., Bayonne—Bulkheads, wharves, etc.—Standard Oil Co. acquired site adjoining Constable Hook plans for $650,000 and will develop.

N. J., Bloomfield—Flood Protection—Town plans, Second River. E. Baechlin, Town Engr.

Penn., Chester—Docks—American Dyewood and Extract Co. plans.

Penn., Chester—Wharves, etc.—Chester Shipbuilding Co., Ltd., Philadelphia, plans on banks of Delaware River.

Penn., Erie—Flood Protection—City prepared plans, Mill Creek. About $950,000. Farley Gannett, Telegraph Bldg., Harrisburg, Engr. Noted June 8.

Penn., Morrisville—Elimination Grade Crossings—Pennsylvania R.R. plans 17 between Philadelphia and Morrisville. A. C. Shand, Philadelphia, Ch. Engr.

Penn., Pittsburgh—Amphitheater—Commercial Club plans, Moultrie St. School Dist. J. Goodman, Chn. Com.

Va., Richmond—(Press)—Subway—Council asked Southern Ry. to improve under tracks at 16th St. and MacDonald Ave. About $30,000. B. Herman, 1300 Pennsylvania Ave., Washington, D. C., Ch. Engr. M. W. and Struct.

Fla., Tampa—Slip and Piers—City plans. D. B. McKay, Comr. Pub. Wks. R. D. Martin, City Engr.

Ala., Mobile—Docks and Unloading Plants—State Harbor Bd. plans. G. G. Crawford, Birmingham, Member Bd.

Miss., Bay St. Louis—Seawall, etc.—Seawall Comrs. Dist. No. 2 receiving bids Aug. 5. G. R. Rea, Secy. D. N. Harris, Mobile, Ala., Engr.

Miss., Macon—(Official)—Spreader, Heater and Road Sweeper—County receiving bids Aug. 7. J. A. Tyson, Macon, Chancery Clk. Noted June 15.

Ohio, Cleveland—Elimination Grade Crossing—Council plans, 65th St. and Erie R.R. Robert Hoffman, City Engr.

Ohio, Cleveland—Elimination Grade Crossing—City plans election in November to vote on $900,000 bonds, lake front of New York Central Ry. Robert Hoffman, City Engr.

Ohio, Cleveland—Retaining Wall—Bd. Education receiving bids Aug. 7 at Dawning School. F. G. Hogan, Dir. Schools.

Ohio, Lorain—Docks—Baltimore & Ohio R.R. Co. prepared plans. About $300,000. F. L. Stuart, Baltimore, Ch. Engr.

Ohio, Sandyville—Elimination Grade Crossings—Baltimore & Ohio R.R. Co. plans between Sandyville and Canton. F. L. Stuart, Baltimore, Ch. Engr.

Ohio, West Park—Fire Station—City making plans. About $35,000. F. Warner, Hippodrome Annex, Cleveland, Arch. Noted July 13.

Ind., Ligonier—(Official)—Mausoleum—Strauss Bros. receiving bids about Aug. 1. About $15,000. A. M. Strauss, Bank Bldg., Ft. Wayne, Arch. Noted July 6.

Ind., South Bend—Bath House—M. Brooda, 517 South Chapin St., plans. About $20,000. Austin & Shambleau, J. M. S. Bldg., Arch.

Mich., Flint—Market—City plans. E. C. Shoecraft, City Engr.

Ill., Peotone—~~(Official)~~—Pipe—P. M. Collins, Pres. Citizens Bank, Peotone, receiving bids July 28, water and sewer. (See adv.)

Wis., Milwaukee—Bath House—Council passed ordinance providing $70,000 bond issue McKinley Park Beach. C. E. Malig, Dept. Pub. Wks., Arch. About $50,000. Noted Dec. 9.

Wis., Milwaukee—Retaining Walls—City plans, along lake shore from Wisconsin St. to harbor entrance. G. Staal, City Engr.

Iowa, Wapello—Levee—Louisa and Muscatine Counties plan to obtain $100,000 to rebuild levee between 2 counties. Address County Clk., Wapello.

Mo., Kansas City—Flood Protection—City Rosedale, Kan., will build tunnel under Greystone Heights for diversion of Turkey Creek flood waters on Kansas side under supervision of Harrington, Howard & Ash, Engr., Kansas City. About $350,000. Noted Jan. 6.

Mo., St. Louis—Aquarium—Bd. Estimate and Apportionment asked to appropriate $150,000, Forest Park. E. R. Kinsey, Pres. Bd. Pub. Ser.

Mo., St. Louis—Playgrounds—Playgrounds Com. plans, 17th and Bond St., 15th and Piggott St., 12th St. and Broadway and Garfield School. W. J. Veatch, Chn. Com.

Wash., Seattle—Dry Dock—Seattle Construction and Dry Dock Co., will spend $1,000,000. J. V. Peterson is Pres.

Ore., Portland—Comfort Station—Council passed ordinance, in Terwilliger Park, South Portland.

Ore., Portland—Elimination Grade Crossings—Council plans to eliminate crossing of Oregon Electric Ry., Front St., and Southern Pacific Co., Miles St. P. H. Dater, City Engr.

Calif., Crescent City—Harbor Improvements—City voted $100,000 bonds.

Ont., Normandie—Dam, Fish Hatchery—A. Burt plans. About $40,000.

Ont., Simcoe—Dock Improvements—City submitted plans to Dept. Pub. Wks., Ottawa, Port Dover Dock.

Ont., Welland—Skating Rink—S. M. Lambert making plans about $35,000.

Bids In and Contracts Awarded

Maine, Bangor—Retaining Wall—City let contract, State St., to J. M. MORRIS, Bangor.

Mass., Boston—Steps—Curtis Guild Memorial Comn. let contract to W. A. WENTWORTH CO., 15 Exchange St., Boston.

Mass., Hull—Breakwater—Harbor and Land Comn. let contract, Gun Rock Point, to ROCKPORT GRANITE CO., 131 State St., Boston. Noted July 6.

Mass., Salem—Wall and Tunnel—Salem Electric Co., let contract to F. T. LEY & CO., INC., 185 Devon St., Boston, about $28,000.

Mass., Sandwich—Jetties—Harbor and Land Comn. let contract, Sandwich Harbor, to ROCKPORT GRANITE CO., 131 State St., Boston. Noted July 6.

Conn., New London—(Official)—Pier Shed and Warehouse—Rivers, Harbors and Bridges Comn. let contract to SCHEIDENHELM CONSTRUCTION CORPORATION, 2709 Grand Central Terminal, New York, $125,000. Noted June 1.

N. Y., New York—(Borough of Bronx)—(Official)—Subway—Pub. Ser. Comn. received low bids for railroad duct line for Seventh Ave. Lexington Ave. Rapid Transit R.R. from T. H. Reynolds Contracting Co., Inc., 13 Park Row, $10,300; R. Benenson, 1616 Webster Ave., $11,121; Beaver Engineering and Contracting Co., Inc,. 51 Chambers St., $11,598. Noted July 6.

N. Y., New York—(Borough of Manhattan)—(Official)—Frogs and Switches. Pub. Serv. Comn. 120 Broadway, received bids, Special Order No. 8, from Pennsylvania Steel Co., $65,316, Ramapo Iron Works, $66,740. Noted June 29.

N. Y., New York—(Borough of Manhattan)—(Official)—Station Finish—Pub. Ser. Comn. received low bid, Grand Central Sta. of Queensboro Subway from T. J. Waters Co., 271 West 125th St., $22,649. Noted July 6.

N. Y., New York—(Borough of Manhattan)—(Official)—Subway—Pub. Ser. Comn. received low bids part of Route No. 61, part of Broadway-Fourth Ave. Rapid Transit R.R. from: P. McGovern Co., 1 Madison Ave., $4,194,797; Degnon Contracting Co., 30 East 42d St., $4,247,000; Booth & Flinn, Ltd., 17 Battery Pl., $4,449,000. Noted June 29.

N. Y., Niagara Falls—Elimination of Grade Crossing—Grade Crossing Comn. received low bid, Portage Rd., from Peckham Construction Co., Buffalo, $75,000. Noted Dec. 9.

N. J., Clifton—Coal Pocket—Vandervliet & Troast let contract to J. GERRETSON & SON, 133 Saddle River Rd., Garfield. About $6,000.

Penn., Meadville—Market House—City rejected bids. E. J. Weaver, McDowell Bldg., Sharon, Arch. Noted May 18.

Penn., Philadelphia—Recreation Building—City received low bid, 51st St. and Chester Ave., from F. G. Stewart, 1619 Sampson St., $104,896. Noted June 29.

Va., Richmond—Riprap and Excavation—City let contract, Shields' Grove Lake to DEAVER & WINGO, $10,516.

Fla., Tampa—Sea-Wall—Sunset Park Realty Co., received low bid from W. P. Kennedy, Tampa, about $40,000.

Ohio, Canton—Grandstand—Stark County Agricultural Society let contract to G. H. WHIKE & SON, about $45,000. Noted June 15.

Ohio, Cincinnati—Comfort Station—City let contract to M. PENKER, 123 Valencia Ave., Cincinnati, $11,500.

Ohio, Cleveland—Bathing Beach—City received low bid from Masters & Mullen Co., $9,130 Garfield Park.

Ohio, Cleveland (East Cleveland)—Fire Station—City let contract, Hayden Ave., to ROWE & GILES, Chagrin Falls, $14,292. Noted July 13.

Ill., Cicero—Swimming Pool—City let contract, high school, to SCHMIDT BROS. CONSTRUCTION CO., 105 North Clark St., Chicago. About $7,000.

Iowa, Waterloo—Coaling Station and Sand Bins—Illinois Central R.R. let contract to RAILROAD WATER AND COAL HANDLING CO., 608 South Dearborn St., Chicago, about $12,000.

Ark., Little Rock—(Official)—Fire Station—City let contract, 9th ward, to L. V. HINSON, $7,700. F. Chenault, Secy. Bd. Pub. Affairs. Noted Mar. 2.

Tex., Athens—Levee Work—Henderson County Levee Improvement Dist. No. 1 let contract 750,000 cu.yd. to CALLAHAN CONSTRUCTION CO., Omaha, Neb.

Tex., Ft. Worth—Levee—Tarrant County Levee Dist. let contract to DRAKE-BRANNUM CONSTRUCTION CO., Ft. Worth, about $85,000. Noted June 29.

Tex., Kaufman—Levee Work—Kaufman County Levee Improvement Dist. No. 1 let contract, 300,000 cu.yd. Trinity River, to CALLAHAN CONSTRUCTION CO., Omaha, Neb.

Tex., Waxahachie—Levee Work—Ellis County Levee Improvement Dist. No. 4 let contract 194,000 cu.yd., to CALLAHAN CONSTRUCTION CO., Omaha, Neb.

Utah, Salt Lake City—(Official)—Comfort Station—City let contract, Liberty Park, to F. SCHUYLER, Salt Lake City, $7,550. Noted June 15.

Wash., Puyallup—Mausoleum—Woodlawn Abbey Community Mausoleum Co. let contract to PUGET SOUND BRIDGE AND DREDGING CO., Seattle, about $30,000 .

Wash., Tacoma—Dock—City let contract Big Harbor, to M. A. PETRICH, 3015 North 31st St.

Ore., Gardiner—Port Improvement—Comrs. Port of Umpqua let contract jetty to GIEBISCH & JOPLIN, $151,698. Noted June 8 under Umpqua.

Ore., Portland—Shipways—Oregon-Washington R.R. and Navigation Co. let contract to NORTHWEST STEEL CO., foot of Sheridan St., $30,000.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

N. H., Peterboro—Town Hall—Town making plans to rebuild, about $60,000. Little & Russell, 45 Bromfield St., Boston, Arch. Noted July 6.

Mass., Fall River—J. N. Buffington plans 5-story, 40x80-ft. building at Bedford and Purchase St.

Mass., Framingham—Church—Methodist Episcopal Congregation making plans, about $40,000. W H. Taylor, 50 Bromfield St., Boston, Arch.

Mass., Lowell—School—City making plans for 2-story addition, about $60,000. P. F. Gilbert, 52 Central St., Arch.

Mass., Medford—High School—City plans, Washington St. About $125,000. M. M. Dyer, 117 Otis St., Arch.

Mass., New Bedford—School—City plans 1-story, 140x200-ft., Belleville and Rhodes St. L. E. Destremps, Arch.

Mass., North Andover—High School—City making plans. About $70,000. Ashton & Huntress, 477 Essex St., Lawrence, Arch.

Mass., Spencer—Office—G. H. Marsh plans 3-story, 33x90 ft. J. P. Kingston & Son, Knowles Bldg., Worcester, Arch.

Mass., Waltham—Synagogue—Y. M. H. A. plans, Main and Bacon St., about $50,000.

Conn., Orange—High School—City making plans. About $200,000 R. W. Foote, 185 Church St., New Haven, Arch.

Conn., West Haven—High School—City plans, about $175,000. Address J. Brown, 153 George St.

N. Y., Cohoes—High School—Bd. Education asked city to build, about $200,000. C. E. Wheeler, Principal.

N. Y., Dunkirk—High School—Bd. Education making plans, about $90,000. E. E. Joralemon, 547 Franklin St., Buffalo, Arch. Noted Mar. 2.

N. Y., Endicott—School—Citizens voted $40,000 bonds, addition to Broad St. School.

N. Y., Jamestown—Station—Erie R.R. made plans. About $500,000. Warren & Whitmore, 16 East 47th St., New York, Arch. R. C. Parsons, 50 Church St., New York, Ch. Engr.

N. Y., Johnson—School—Citizens voted $44,000 bonds addition to Broad St. School.

N. Y., Purchase—Community Building—Town making plans, about $100,000. D. Barber, 101 Park Ave., Arch.

N. Y., Rochester—Hotel—Powers Hotel, 36 Main St., to be improved and enlarged. About $75,000.

N. Y., Syracuse—Church—Westminster Presbyterian Church made plans, Russell & King, 602 Snow Bldg., Arch.

N. Y., Troy—Y. W. C. A. revising plans for 6-story building. About $200,000. C. C. Grant, 37 East 28th St., New York, Arch.

N. Y., Utica—School—St. Mary's Congregation made plans, 2-story, about $40,000. E. J. Berg, Jones Bldg., Arch.

N. J., Burlington—Lodge Building—Grand Lodge F. and A. M. of Trenton made plans for addition. About $75,000. H. Baechlin, 665 Broad St., Newark, Arch. Noted Feb. 17.

N. J., Caldwell—Library—Carnegie Corporation plans. L. G. Lockward, Arch.

N. J., Elizabeth—Office Building—New York Telephone Co. plans, East Grand St.

N. J., Newark—Industrial School—Bd. Education plans, Sussex Ave.

N. J., Newark—Court House—Essex County plans addition, about $750,000. M. N. Shoemaker, 810 Broad St., Arch. and Engr. J. B. Allen, 11 Sandford Ave., Irvington, County Arch.

N. J., Passaic—(Official)—First National Protective Association, 175 3d St., receiving bids July 31 for club house, store and office building. About $40,000. F. Pirrone, Midland Ave., Garfield, Arch. Noted June 29.

N. J., Vineland—School—City made plans. P. A. Davis, 1713 Sansom St., Philadelphia, Arch.

Penn., Ashley—High School—Bd. Education plans, about $50,000. A. L. Reilly, Bennett Bldg., Wilkes-Barre, Arch.

Penn., Clarks Summitt—High School—School Bd. Clarks Summitt and Clarks Green plan. E. Morse, Clarks Summitt, Pres. A. J. Ward, Prendergast Bldg., Scranton, Arch.

Penn., Coatesville—Library—Chamber of Commerce plans.

Penn., Easton—Hospital—Easton Hospital Association making plans, 3-story, about $150,000. J. Carter, 231 Clinton Terrace, Secy. W. M. Michael, Drake Bldg., Arch.

Penn., Elizabethtown—Lodge Buildings—Masonic Lodges of Lancaster County plans, about $90,000. F. W. Rogers in charge. C. E. Urban, Woolworth Bldg., Lancaster, Arch. Noted Mar. 2.

Penn., Flourtown—Carson College plans new building. A. Kelsey, Philadelphia, Arch.

Penn., Greensburg—Building—Christian Congregation plans, Pennsylvania Ave., about $50,000.

Penn., Johnstown—Hospital—Memorial Hospital will make plans for addition. About $100,000. W. R. Nyton, First National Bank, Arch. F. Krebs, 509 Napoleon St., Chn. Bd. Dir.

Penn., Johnstown—Lodge Building—Knights of Pythias, No. 451, making preliminary plans, 5-story. About $50,000. M. Rogers, Johnstown Trust Bldg., Arch. H. Kahl, 708 Sherman St., Arch. Noted Sept. 23.

Penn., Kutztown—High School—Bd. Education rejected bids. About $40,000. New Bids. Noted May 11.

Penn., Narberth—School—Bd. Education making plans, about $40,000. M. Melchier, Windsor and Grayling Ave., Secy. C. S. Adams, 1509 Arch St., Philadelphia, Arch.

Penn., Pittsburgh—School—Bd. Education made plans Greenfield Grade School, about $300,000. G. W. Gerwig, Fulton Bldg., Secy. Kiehnel & Elliott, Keenan Bldg., Arch.

Penn., Pittsburgh—School—Bd. Education made plans, about $230,000. G. W. Gerwig, Fulton Bldg., Secy. C. Bickel, 11th Floor, May Bldg., Arch.

Penn., Pittsburgh—Auditorium—Bd. Education made plans for addition, about $150,000. G. W. Gerwig, Fulton Bldg., Secy. E. B. Lee, Pittsburgh Bank for Savings, 4th Ave. and Smithfield St., Arch.

Penn., Pittsburgh—School—Bd. Education made plans, about $300,000. G. W. Gerwig, Fulton Bldg., Secy. R. M. Trimble, Ferguson Blk., Arch.

Penn., Pittsburgh—High School—Bd. Education made plans for addition, about $100,000. G. W. Gerwig, Fulton Bldg., Secy. E. Stotz, Monongahela Bank Bldg., Arch.

Penn., Scranton—High School—City making plans, about $85,000. H. J. Blackwood, Scranton, Arch.

Penn., Swarthmore — Dormitory — Swarthmore College plans, 3-story. About $50,000. J. Swain, Pres.

Penn., Williamsport—Bank—West Branch National Bank lets contract about Sept. 1. Mowbray & Uffinger, 56 Liberty St., New York, Arch.

Md., Cumberland—Hotel—T. B. Finan, Pres C Orrick & Son Co., plans, Baltimore and Libe St. About $500,000.

Va., Norfolk—Church—St. Andrews Episco Chapel plans, 1-story. About $40,000.

Va., Norfolk—Church—Sacred Heart Congregation plans, 2-story. About $50,000.

Va., Petersburg—High School—Bd. of Education making plans, 3-story. About $150,000 Ferguson, Carlow & Wrenn, Virginia Bank Bldg., Norfolk, Arch. Noted Apr. 20.

Va., Staunton—School—School Board receiving bids July 27. T. J. Collins & Son, Staunton, Arch.

W. Va., Beckley—High School—City receiving bids Aug. 15, 3-story, about $65,000. W. H. St. Clair, 1010 Washington St., Charleston, Arch.

W. Va., Huntington—Schools—Bd. Education will make plans, about $300,000. V. T. Ritter, National Bank Bldg., Arch. Noted May 25.

W. Va., West Liberty—(Official)—Dormitory—State Bd. Control, Charleston, receiving bids Aug. 23. F. F. Faris, Wheeling, Arch. (See adv.)

Fla., Daytona—Hotel—Clarendon Co. plans addition.

Ala., Athens—Courthouse—Limestone County plans. About $45,000. Address County Judge, Athens.

Miss., Columbus—High School—City receives bids soon. About $50,000.

La., Jennings—High School—City election July 29 to vote on $40,000 bonds.

Tenn., Knoxville—Church—First Baptist Congregation plans to rebuild. About $40,000. L. G. Broughton, Pastor.

Tenn., Memphis—Hospital—Memphis Conference of Methodist Church soon receives bids, 7-story, 100x450-ft. About $150,000. J. Gaisford, Goodwyn Institute, Arch. Noted May 25.

Tenn., Murfreesboro—High School—City plans $75,000 bond issue.

Tenn., Ooltewah—Southern Union College plans buildings, about $125,000.

Ky., Covington—Hotel—Weber, Werner & Adkins, Arch., 414 Walnut St., Cincinnati, made plans, 5-story. About $200,000.

Ky., Louisville—Auditorium—Commercial Club making plans. About $300,000. D. X. Murphy & Bro., Louisville Trust Bldg., Louisville, Arch. Noted Jan. 27.

Ohio, Akron — Engineering College — Council passed ordinance to issue $50,000 bonds, University of Akron.

Ohio, Akron—Bank and Office Building—Commercial Savings Bank Co. making plans. About $500,000. F. Wagner & Mitchell, 495 Permanent Bldg., Arch.

Ohio, Cambridge—Hotel, Theater and Store Building—M. L. Spaid, Steubenville Ave., and associates, plan, 5-story, about $75,000.

Ohio, Circleville—High School—Bd. Education receiving bids July 28, 2-story, about $130,000. F. L. Packard, 1212 Hayden Bldg., Columbus, Arch. Noted July 6.

Ohio, Cleveland—Y. W. C. A. revising plans for 2- or 3-story addition to building. About $60,000. Walker & Weeks, Euclid Ave., Arch. G. Kinney, 2001 Chestnut Hill Dr., interested.

Ohio, Cleveland Heights—(Warrensville post office)—School—City election Aug. 8 to vote on $190,000 bonds. E. Bryant, Clk. School Bd. Noted Feb. 10.

Ohio, Columbus—Club House—Athletic Club of Columbus plans, about $40,000. E. A. Reed, Broad and Lazelle St., Pres. Richards, McCarty & Bulford, Hartman Bldg., Arch.

Ohio, Coschocton—School—Bd. Education Tuscarawas Township School Dist. receiving bids Aug. 1. F. L. Packard, Hayden Bldg., Columbus, Arch.

Ohio, Fredericktown—High School—School Dist. receiving bids Aug. 11. Ernest V. Ackerman, Clk. Howard & Merriam, 8 East Broad St., Columbus, Arch.

Ohio, Galion—Grade and High School—Bd. Education election Aug. 8 to vote on $150,000 bonds. G. C. Coyle, Clk. Howard & Merriam, 8 East Broad St., Columbus, Arch.

Ohio, Gallipolis—School—Bd. Education will sell $80,000 bonds July 27. W. H. Pritchard, Clk. Noted June 29.

Ohio, Lakewood—High School—Bd. Education receiving bids Aug. 8. P. T. Harrold, Clk. C. W. Hopkinson, 900 Rose Bldg., Cleveland, Arch.

Ohio, Marion—Hotel—R. T. Lewis, interested, 224 West Center St. About $100,000.

Ohio, Middletown—High School—City plans $200,000 bond issue. Noted Feb. 10.

Ohio, Montpelier—School—City making plans. A. H. Ellwood & Sons, Elkhart, Arch.

Ohio, Norwood—Seminary—Mt. St. Marys Theological Seminary receiving bids about Aug. 1. 4-story. About $450,000. A. Kunz, Jr., 955 West Court St., Cincinnati, Arch. Noted May 11.

Ohio, Warrensville—School—Citizens defeated $50,000 bond issue Bee Hive Dist. Noted June 29.

Ohio, Wellington—High School—Citizens voted $55,000 bonds. Noted June 8.

Ohio, West Park—Library and Auditorium—City plans. About $60,000.

Ohio, Yorkville—School—School Dist. plans. About $40,000. F. O. Niceley, Clk.

Ohio, Youngstown—Temple—Youngstown Lodge No. 79 plans, 7-story. G. A. Edelsvard, Arch.

Ind., Anderson — Lodge — Local Lodge Elks plans. About $50,000.

Ind., Auburn—School—City approved plans of A. H. Ellwood & Son, Arch., Elkhart. About $125,000.

Ind., Ft. Wayne—School—School Bd. sold $100,000 bonds.

Ind., Greencastle — Dormitory — Depauw University lets contract about September. About $100,000. R. F. Daggett, Indianapolis, Arch. Noted June 22.

Ind., La Porte—Church—Trustees St. Peters Congregation plan. About $60,000.

Ind., Nappanee—School—City plans. About $50,000.

Ind., Perrysville—High School—Trus. Highland Township receiving bids July 29.

Ind., Seymour—Hotel—C. E. Dobbins making plans. W. B. Parker, 805 Bd. Trade Bldg., Indianapolis, Arch.

Ind., Terre Haute—Science Hall—Indiana State Normal College plans, 2-story. About $100,000. G. Maclucas & Fitton, 1151 Lemcke Annex, Indianapolis, Arch.

Ind., West Lafayette—Armory—Purdue University making plans, 2-story, 260x260-ft. About $250,000. R. P. Daggett, 956 Lemcke Annex Bldg., Indianapolis, Arch.

Mich., Calumet—High School—Bd. of Education made plans, 3-story, 62x168 ft. About $80,000. J. D. Chubb, 109 North Dearborn St., Chicago, Arch. Noted Mar. 23.

Mich., Flint — High School — Bd. Education plans, about $500,000. A. J. Wildanger, 909 F. P. Smith Bldg., Secy. Malcomson & Higginbotham, 404 Moffat Bldg., Arch. Noted July 6.

Mich., Jackson—Schools—Bd. Education receiving bids July 27. L. H. Field, Camp Bldg., Arch. G. W. Scotford, Secy. Bd.

Mich., Jackson—(Official)—Hospital—City receiving bids Aug. 14. About $150,000. M. J. Strum, 116 South Michigan Blvd., Chicago, Arch. Noted May 11.

Mich., Owosso—Hotel—E. B. Hoffman plans to spend $75,000 to improve Wildermuth Hotel.

Mich., Reed City—High School—Bd. Education will make plans. E. M. Wood, Alma, Arch.

Ill., Alton—Frank D. Whipp, State Fiscal Superv., Springfield, receiving bids Aug. 1 for 2 custodial buildings at State Hospital. J. D. Dibelka, 130 North 5th Ave., Chicago, Arch.

Ill., Alton—City Hall—City plans. About $75,000.

Ill., Chicago — (Official) — Convention Hall — Northwest Side Commercial Association plans. About $1,775,000. T. H. Deuther, Secy.

Ill., Rock Island—Hotel—Edelweiss Brewing Co. making plans, 6-story, 3d Ave. and 20th St. A. H. Ebeling, 301 Security Bldg., Davenport, Iowa, Arch.

Ill., Springfield—School—Citizens voted $100,000 bonds, Douglas School Subdistrict.

Ill., Streator—School—Bd. Education making plans, 2-story, about $40,000. E. R. Funsten, Racine, Arch. P. Saunders, Secy.

Ill., Waukegan—(Official)—School—City receiving bids July 27. About $50,000. C. W. Webster, Joliet, Arch. Noted May 25.

Wis., Eau Claire—Temple—Masonic Temple Association plans, about $75,000.

Wis., Park Falls—School—City making plans. About $65,000. R. A. Messmer & Bro., Majestic Bldg., Milwaukee, Arch. Noted Apr. 20.

Wis., Sheboygan—Exchange and Office Building—Citizens Telephone Co., subsidiary of Wisconsin Telephone Co., plans, Center Ave. and North 7th St.

Wis., Whitefish Bay—School—Milwaukee Country Day School making plans, 2-story, about $60,000. H. W. Buemming, 521 Jackson St., Milwaukee, Arch.

Iowa, Des Moines—Church—Christian Scientists Congregation plans. About $40,000.

Iowa, Mason City—School—Citizens voted $40,000 bonds. J. H. Felt & Co., 800 Grand Ave. Temple Bldg., Kansas City, Mo., Arch. Noted June 15.

Minn., St. Paul—Work House—City to build. About $200,000. M. N. Goss, Comr. Pub. Wks.

Minn., Winnebago—High School—Bd. Education receives bids in January, about $50,000. K. T. Snyder, 643 Plymouth Bldg., Minneapolis, Arch. Noted June 1.

Kan., Anthony—High School—Citizens voted $55,000 bonds. R. H. Beebe, Clk. Bd. Education. Noted May 25.

Kan., Hiawatha—Court House and Jail—Brown County election Aug. 1 to vote on proposition to build, about $135,000. J. E. Mathewson, Hiawatha, County Clk.

Kan., Iola—High School—City received bids about Aug. 1, 3-story, 90x160-ft., about $85,000. T. W. Williamson & Co., Central National Bank Bldg., Topeka, Arch. Noted July 13.

Kan., Ottawa—High and Grade School—Bd. Education receives bids about Aug. 19, 3-story, about $100,000. G. P. Washburn & Son, Arch. Noted June 29.

Neb., Grand Island—Club House—B. P. O. E. No. 694 receiving bids July 24. About $50,000. O. Kirschke, Grand Island, Arch. Noted May 25.

Neb., Omaha—Church—W. L. Steele, Arch., 502 United Bank Bldg., receiving bids Aug. 7, First Congregational Church. About $75,000.

Neb., Omaha—City Hall—City rejected bids, 18th and Farnum St. New bids. About $40,000. W. E. Stockham, 426 Ramge Bldg., Arch.

Neb., Plattsmouth—School—Bd. Education receiving bids July 26, 2-story, 64x120-ft., about $50,000. E. H. Westcott, Secy. Berlinghoff & Davis, Security Mutual Life Bldg., Lincoln, Arch. Noted June 15.

Mont., Butte—Hospital—City plans. About $160,000. J. J. Armstrong, City Engr.

Mo., Carthage—Schools—Bd. Education making plans 2 schools. About $90,000. J. H. Felt & Co., 8 Grand Ave. Temple, Kansas City, Arch. Noted May 4.

Mo., Fulton—Schools—City sold $850,000 bonds. R. G. Hale, Supt. Schools.

Mo., Joplin—School—City made plans. About $250,000. Smith, Rea & Lovett, Arch.

Mo., Kansas City—Hotel—Hoffman Bros. Investment Co., 524 Ridge Bldg., plans, 8- or 10-story, 312 East 9th St. About $150,000.

Mo., Moberly—Lodge—Local Lodge of Elks plans. About $50,000.

Mo., St. Joseph — Church — First Christian Church making plans. About $80,000. W. Boschen, Tootle-Lemon Bank Bldg., Arch.

Tex., Brownwood—Hospital—Brown County plans election to vote on $50,000 bonds. Address County Clerk, Brownwood.

Tex., El Paso—Lodge—Local Order of Elks plans. About $100,000. Max H. Miller, interested.

Okla., Ardmore—Convention Hall—City plans election to vote on bonds. G. H. Bruce, City Clk.

Okla., Ardmore—Hospital—Walter Hardy plans addition Hardy Hospital. About $50,000.

Okla., McAlester—(Official)—Church Phillips Memorial Methodist Congregation receiving bids July 27. Hawk & Parr, Oklahoma, Arch. About $40,000. Noted June 8.

Utah, Logan—High School—Citizens voted $80,000 bonds.

Ariz., Flagstaff—Hotel—Flagstaff Hotel Development Co. plans. About $200,000.

Wash., Spokane—Salvation Army plans building. About $100,000.

Wash., Spokane—Elks Lodge plans 5-story building, about $135,000. F. P. Rooney, Empire State Bldg., Arch.

Calif., Modesto—High School—City election to vote on bonds. Noted Feb. 10.

Calif., Turlock—High School—City election July 28 to vote on $100,000 bonds. Address Clk., Bd. Education.

Alta., Calgary — Church — Central Methodist Congregation plans to rebuild. About $50,000.

Bids In and Contracts Awarded

Vt., Springfield—School—City let contract to I. HALL, Springfield.

Mass., Cambridge—Hospital—City let contract to WALSH BROS., 150 Hampshire St., about $85,000. Noted June 8.

Mass., Norwood—Bank—Norwood National Bank let contract to J. W. BISHOP CO., 683 Atlantic Ave., Boston, about $50,000.

Mass., Southbridge—School—City rejected bids, about $60,000.

Mass., Waltham—School—City let contract additions and alterations to G. T. O'BRIEN, 29 Bay St., Cambridge, about $42,598.

Conn., New Haven—Theater—S. C. Poli let contract 2-story theater to PETER LEONE, Main and Gold St., Hartford. About $250,000. Noted Apr. 13.

N. Y., New York—(Borough of Brooklyn)—(Official)—Hotel—Helmle & Corbett, 195 Montague St., let contract to THOMPSON STARRETT CO., 51 Wall St.

N. Y., New York—(Borough of Manhattan)—(Official)—Club House—Racquet and Tennis Club, 27 West 42d St., let contract 5-story, 100x200-ft., to M. EIDITZ & SON, 30 East 42d St. Noted June 22.

N. Y., Rochester—Armory—State Bd. Armory Comrs., Albany, received low bid construction from R. T. Ford Co., Rochester, $86,330; plumbing, F. S. Conkling, Rochester, $6,925; heating W. F. Devendorf & Co., Rochester, $4,993. Noted June 1.

N. J., Spring Lake—(Hospital)—May Memorial Hospital let contract 2-story addition to H. H. MOORE, about $42,000. Magaziner & Potter, Philadelphia, Arch. Noted Apr. 27.

Penn., Collingdale—School—City let contract to D. P. GOTSCHALL. W. L. Blithe, Philadelphia, Arch.

Penn., Jeanette—Church—First Reformed Church let contract to J. E. MEYERS, Penns Station, about $40,000.

Penn., Parsons—High School—City let contract to H. MAILANDER, 167 Barney St., Wilkes-Barre, $45,441. Noted May 11.

Penn., Pittsburgh—Hospital—Mercy Hospital let contract 6-story addition to H. SHENK CO., Pittsburgh. About $500,000.

Penn., Pittsburgh—School—City let contract to T. MONK, Turtle Creek.

Penn., South Mountain—Ward Buildings—State Asylum for Chronic Insane received low bids from Metzger & Fisher, Denckla Bldg., Philadelphia, $70,363 and $58,336. Noted June 29.

Fla., Jacksonville—School—City let contract Central Riverside School to W. O. RICHARDSON & CO., $57,910.

La., Many—Court House—Sabine Parish let contract to CALDWELL BROS., Abbeville, $85,000. Noted June 22.

Ind., Ft. Wayne—Lodge Building—Harmony Lodge, I. O. O. F., let contract to BUESCHING & HAGERMAN, Ft. Wayne, about $80,000. Noted June 1.

Ind., Plymouth—School—Bd. Education let contract school to BYERS BROS. CONSTRUCTION CO., Kalamazoo, Mich.

Mich., Flint—School—Bd. Education let contract George Cook School to CLARK & ROGERS, Flint, about $75,000.

Mich., Plymouth—High and Grade School—Bd. Education let contract BYER BROS. CONSTRUCTION CO., 608 Douglas Ave., Kalamazoo, about $100,000.

Ill., Chicago—Theater—J. P. Casey, 4649 South State St., let contract to RUNE & SONS, 6142 Rhodes Ave., about $40,000.

Ill., Chicago—Theater, Dance and Lodge Building—R. W. Owens let contract to RUNE & SONS, 6142 Rhodes Ave,. about $175,000.

Ill., Chicago—Hotel—Lott Hotel Co. let contract, 10-story, 2100-8 Lincoln Park Blvd., to L. J. MENSCH, 138 North La Salle St.

Ill., Macomb—Art Building—Western Illinois Normal School received low bid from A. W. Stoolman, Champaign. Noted June 15.

Ill., Mendota—High School—City let contract to C. W. KARR, Clinton, $42,901. Noted Mar. 2.

Ill., Quincy—School—Bd. Education lets contract Dewey School about Sept. 1. About $75,000. G. P. Behrensmeyer, 530 Main St., Arch. Noted May 11.

Wis., Superior—Training School—State Bd. Regents rejected bids, Superior Normal School. W. Kittle, Secy. Noted May 25.

Minn., Perham—High School—Bd. Education let contract READ & McDONALD BREWSTER CO., Minneapolis, $53,590. Noted Mar. 2.

Minn., Red Wing—(Official)—High School—City let contract to MADSEN CONSTRUCTION CO., Plymouth Bldg., Minneapolis, about $117,000. Noted June 29.

Minn., Stillwater—State Bd. Control, St. Paul, rejected bids Women's Prison. Noted June 1.

Kan., Hays—High School—Bd. Education let contract to T. JACOBS, $45,000. Noted June 15.

Neb., Benson—School—City let contract to R. BURKE, Paxton Blk., Omaha, about $40,000.

Neb., Crete—High School—School Bd. rejected bids. Noted Apr. 27.

Neb., Fremont—Hotel—Fremont Hotel Co. let contract to J. MATSKU & CO., Omaha, $131,900. Noted May 11.

Mont., Dillon—Theater—Hartwig Theater let contract to A. B. DEKAY, Helena, about $50,000.

Mont., Missoula—Hospital—Northern Pacific Beneficial Association let contract to OLSON & JOHNSON, INC., Missoula, about $110,000. Noted June 22.

Mo., Clayton—High School—Bd. Education let contract to DUFFNER & STECKER, International Life Bldg., St. Louis, about $80,000. Noted Apr. 6.

Mo., Joplin—Hospital—Jasper County let contract to SMITH & WOODLING, Kansas City, $65,545.

Tex., McAllen—High School—Bd. Education let contract to C. F. HARWOOD, Robstown, about $70,000. Noted Apr. 27.

Idaho, Nampa—High School—School Bd. let contract to A. S. WHITEWAY, Boise, $43,315. Noted July 6.

Ore., Coquille—Courthouse—Coos County let contract addition to W. W. LADD, Marshfield.

Calif., La Jolla—School—Bd. Education let contract addition to Bishops School to R. P. SHIELDS & SON, San Diego, about $50,000.

Calif., Los Angeles—Hotel—J. B. Lankershim, Lankershim Bldg., to build 3-story, East 7th St. and Central Ave., by day labor.

N. B., St. John—High School—St. Vincents School let contract to J. FLOOD, 123 Duke St., about $150,000. Noted May 11.

Que., Montreal—Church—Ruthenian Corporation, 992 Sherbrooke St., W., let contract to FILION BROS., 2419 St. Denis St., about $65,000.

Sask., Moose Jaw—Hospital—Providence Hospital let contract to W. COWLIN & SON, Ltd., Mail Bldg., Toronto, about $100,000.

B. C., Nelson—Exchange Building—British Columbia Telephone Co. let contract to SNIDER & BRETHOUR, Vancouver.

SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until Aug. 1, 1916.

Concrete Curb on Valley Road

Montclair, N. J.

Sealed bids will be received by the Town Clerk for completing the construction of a six-inch by sixteen-inch (6"x16") concrete curb set on a concrete base and having a metal corner bar; and for the resetting of the existing stone curb on a concrete base on either side of Valley Road from Church Street to Normal Avenue, a distance of approximately 17,000 lineal feet.

All work is to be done in accordance with the plans and specifications therefor on file in the office of Edgar S. Closson, Town Engineer, and there to be seen.

Each bidder will be required to use the form of bid on file in the office of the said Town Engineer and all bids not made on such form will be rejected.

Each bid must be accompanied by a forfeit of twelve hundred ($1,200.00) dollars to insure the signing of the contract and bond by the successful bidder within two (2) weeks after the award shall have been made.

All bids must be in by Tuesday, August 1st, 1916, at 8 P.M., at which time the Board of Commissioners will meet in the Municipal Building to consider the same.

The Board of Commissioners reserve the right to reject all bids or to award the contract to the lowest bidder or bidders who furnish satisfactory evidence of their ability to carry out the contract as regards time, quality of work to be done and materials to be furnished.

By order of the Board of Commissioners. HENRY WARE JONES,
Acting Town Clerk.

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Bids received until Aug. 8, 1916.

Paving.

Clinton, Iowa.

Sealed Proposals will be received at the office of the City Clerk, Clinton, Iowa, until eight (8) o'clock P.M. on the 8th day of August, 1916, for a street improvement consisting of the following list of approximate quantities:

16,868 sq.yds. vitrified brick paving or asphaltic concrete paving.
10,607 lin.ft. of combined curb and gutter.

Certified check for $1,000.00 on a responsible bank. Plans and specifications and forms on file with the City Clerk or City Engineer. Price of complete plans and specifications for private use, $5.00.

FRANK W. LEEDHAM, City Clerk.
J. G. THORNE, City Engineer,
317 Howes Block, Clinton, Iowa.

⁂

Bids received until Aug. 1, 1916.

Electric Distribution System.

Albany, Ill.

The Town of Albany, Illinois, will receive bids for a local electric distribution system in the Town Hall at 2 p.m., August 1st, 1916. Plans and specifications may be obtained from David G. Fisher & Co., 212-214 Whitaker Bldg., Davenport, Iowa. Deposit of $10.00 required and will be refunded on return of papers. Estimated cost of job, $3,500.00. Money is in hand.

Bids received until Aug. 15, 1916.

Pipe, Castings, etc.

OFFICE OF SUPERINTENDENT, CITY
WATER-WORKS, ROOM 103,
CITY HALL,
Richmond, Va.

Sealed proposals will be received in this office until 12 M., August 15, 1916, for the following:

851 lengths of 30-inch cast-iron pipe, class A.

35,000 lbs. of special castings for 30-inch pipe.

315 lengths 12-inch cast-iron pipe, class B.

6,000 lbs. of special castings for 12-inch pipe.

577 lengths 10-inch cast-iron pipe, class B.

10,500 lbs. of special castings for 10-inch pipe.

338 lengths 8-inch cast-iron pipe, class B.

6,430 lbs. special castings for 8-inch pipe.

450 lengths 6-inch cast-iron pipe, class A.

4,325 lbs, special castings for 6-inch pipe.

100,000 lbs. pig lead.

2,900 lbs. jute packing.

One 30x20-inch tapping sleeve and valve (outside diameter of 30-inch pipe 32 inches).

Three 30-inch horizontal hub end gate valves, 200 lbs. test, bevel gear valve on rollers, 2-inch operating nut. Valves to turn to the right to open.

All pipe and special castings, etc., to be delivered f.o.b. Richmond, Va., and to be delivered at such times and in such quantities as may be required by the Superintendent.

The Administrative Board reserves the right to increase or decrease the specified quantities twenty per cent. and the right to reject any or all proposals or any part of any or all proposals. Also to award the contract as a whole or in part. Bidders can bid on the above as a whole or in part.

A certified check for $100, payable to the city treasurer, must accompany each bid. All pipe and specials are to be in accordance with the American Water-Works Association specifications.

E. E. DAVIS, Superintendent.

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PROPOSALS FOR MATERIAL FOR TWO STEEL SPANS FOR THE CONSTRUCTION OF A BRIDGE—Department of the Interior, Office of Indian Affairs, Washington, D. C., July 5, 1916.—Sealed proposals plainly marked on the outside of the sealed envelope, "Proposals for material for two steel spans for bridge, Klamath Indian Reservation, Oregon," and addressed to the "Commissioner of Indian Affairs, Washington, D. C.," will be received at the Indian Office until two o'clock P.M. of August 7, 1916, for furnishing of material only required for the construction of two steel bridge spans, one twenty-foot span and one sixty-foot span, in strict accordance with the plans, specifications and instructions to bidders, which may be examined at the office of the paper or periodical in which this advertisement appears, the United States Indian Warehouses at Chicago, Illinois; St. Louis, Missourii, and San Francisco, California, and the Builders Exchange, St. Paul, Minnesota, and at the office of the Superintendent of the Klamath Indian Agency, Klamath Agency, Oregon. CATO SELLS, Commissioner.

Bids received until Aug. 16, 1916.

Stokers.

Fargo, N. Dak.

The City Auditor of the City of Fargo, North Dakota, will receive, until the hour of ten (10) o'clock A.M., August 16th, 1916, sealed proposals for the installation of mechanical stokers or smoke eliminating and fuel-saving devices, to be installed in the boiler furnaces of the water-works pumping station of the City of Fargo. Bids will be received on the basis of installation in one, two or three furnaces.

The successful bidder shall begin work on the installation not later than October 1st, 1916, and the work must be entirely completed and turned over to the City not later than February 1st, 1917.

The contractor shall guarantee that the density of the smoke coming from the stack at any time shall not be greater than that indicated by comparison with Scale No. 2 on the Ringleman Chart, and the time during any one hour that such density may continue shall not exceed three minutes.

The contractor shall also state what amount of fuel he will guarantee his apparatus will save, over and above the amount of fuel now used by the present installation, and shall also state how he expects to determine such saving.

The contractor shall be required to remove the apparatus that he furnishes, and replace the furnaces in their former condition, without expense to the City, if the terms of the guarantee and contract are not fulfilled.

Each bid must be accompanied by a certified check in the sum of $500.00. The City reserves the right to reject any or all bids. A. R. WATKINS,
City Auditor.

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Bids received until Aug. 4, 1916.

Bids for Motor Sweeper.

Jacksonville, Fla.

Sealed proposals will be received by the Board of Bond Trustees of the City of Jacksonville, until four o'clock p.m., Friday, August 4, 1916, for furnishing delivered f.o.b. Jacksonville, Florida, one combination motor-driven street sweeper, sprinkler and collector. Bidders are instructed to bid on their own specifications, stating time of delivery of the apparatus. A certified check on a Jacksonville bank in the sum of $500.00, payable to W. M. Bostwick, Jr., Chairman, must accompany each bid. For further information apply to L. D. Smoot, Commissioner of Public Works. Each bid should be addressed to the Chairman of the Board, Room 13, City Hall. The Board reserves the right to reject any or all bids. W. M. BOSTWICK, JR.,
Chairman.

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EXECUTIVE OFFICE, LINCOLN MEMORIAL COMMISSION, 1729 New York Avenue, Washington, D. C., July 10, 1916.—Sealed proposals for the erection of the terrace retaining wall and masonry approaches to the Lincoln Memorial, Washington, D. C., will be received here until 12 o'clock Noon, Thursday, August 10, 1916, and then publicly opened. Information upon application. WM. W. HARTS, Colonel, U. S. A., Executive Officer.

Construction News

RAILWAYS, STEAM AND ELECTRIC

Proposed Work

Massachusetts—Marlboro Bd. Trade interested in plan to build railway from Marlboro to Waltham, 15 mi.

New York—Scranton & Binghamton Traction Co. made surveys for line from Harrington's Mills to Montrose. P. W. Day, Scranton, Gen. Mgr.

New Jersey—Pennsylvania & New Jersey R.R. making surveys for extension from Watnong to Paterson. Address F. R. Allen, Bernardsville.

Pennsylvania—Electric Standard Railways Co. incorporated with $1,000,000 capital stock to construct railways. G. L. Campbell, H. R. Noll and H. W. Lukens, Williamsport, interested.

Pennsylvania—Lehigh Coal and Navigation Co., Hazleton, plans to extend line to Cranberry and Harwood.

Pennsylvania—Northern Montour R.R., subsidiary of Pittsburgh Coal Co., Pittsburgh, plans line from Geary to Smith's Ferry, Beaver County.

Pennsylvania—Pennsylvania R.R. plans spur line from Bosco to coal fields south of Beallsville. A. C. Shand, Philadelphia, Ch. Engr.

Pennsylvania—Pennsylvania R.R. to spend $3,000,000 for improvements at Oil City, plans made. A. C. Shand, Philadelphia, Ch. Engr.

Maryland—Baltimore & Ohio Railroad Co. to spend $60,000 for improvements at Cumberland. F. L. Stuart, Baltimore, Ch. Engr.

Florida—H. C. Case granted permission by County Comrs., Clearwater, to construct railway from Park St., 1¾ mi.

Florida—East & West Coast Ry. plans to extend line to Miami. F. C. Gardner, Bradentown, Ch. Engr.

Florida—Hillsborough-Interurban Railway Co. incorporated with $1,000,000 capital stock to construct railway from Tampa to Safety Harbor through Hillsborough and Pinellas Counties, about 60 mi. J. E. Winter, Tampa, Vice-Pres. and Treas.

Florida—South Florida & Gulf R.R. to build extension from Prairie Ridge to Okeechobee City, 22 mi., by company forces. C. H. Armstrong, Kenansville, Ch. Engr.

Alabama—St. Louis & San Francisco R.R. plans to relay with 90 lb. rails 8 mi. line between Adamsville and East Thomas. F. G. Jonah, St. Louis, Mo., Ch. Engr.

Tennessee—Memphis St. Ry. plans to reconstruct tracks on Main St. J. A. Harlon, Memphis, Ch. Engr.

Ohio—Cleveland, Southwestern & Columbus Ry. plans to extend track east to manufacturing district, Elyria. E. F. Schneider, Cleveland, Gen. Mgr.

Ohio—New York, Chicago & St. Louis R.R. plans to electrify line from Lorain to Painesville. E. E. Hart, Cleveland, Ch. Engr.

Indiana—Cincinnati, Indianapolis & Western R.R. plans coal spur from Dana to Clinton. H. F. Passell, Indianapolis, Ch. Engr.

Michigan—Chicago, Milwaukee & St. Paul R.R. plans extension from White Pine. C. F. Loweth, Chicago, Ch. Engr.

Montana—Chicago, Milwaukee & St. Paul Ry. made surveys for line from Grass Range to Winnett, 20 mi. C. L. Loweth, Chicago, Ch. Engr.

Texas—Interstate Electric Co., New York, granted franchise by Council, San Angelo, to construct street railway. E. A. Fitkin, Pres. Noted Feb. 24.

Texas—Port Bolivar & Iron Ore Ry. making surveys for 10 mi. extension. L. P. Fetherston, Longview, Gen. Mgr.

Texas—Southwestern Ry. plans extension from Henrietta to Ringling. A. C. Parks, Henrietta, Pres. and Gen. Mgr.

Oklahoma—(Press)—New York Capitalists plan interurban railway from Oklahoma to Tulsa, about 100 mi. Address S. A. Horton, Oklahoma, Atty at Law.

Idaho—Boise-Payette Lumber Co., Boise, making surveys for several spurs. C. A. Barton, Gen. Mgr.

Oregon—Silver Falls Timber Co. plans to electrify line from Silverton to logging camps.

Manitoba—J. W. Hull, Winnipeg, interested in railway from Transcona to Winnipeg.

Bids In and Contracts Awarded

Illinois—Cleveland, Cincinnati, Chicago & St. Louis Ry. let contract 8 mi. extension near Harrisburg to CARTER CONSTRUCTION CO., 2015 Railway Exchange Bldg., St. Louis. C. A. Paquette, Cincinnati, Ch. Engr.

Montana—Montana Eastern R.R., subsidiary of Great Northern Ry., let contract completion of line from Lewiston to Higgins, 25 mi., to A. GUTHRIE & CO., St. Paul. A. H. Hogeland, St. Paul, Ch. Engr.

Arkansas—Ft. Smith, Subiaco & Eastern R.R. to build line from Scranton to Dardanelle by company forces. J. H. Wright, Ft. Smith, Secy. Noted July 13.

LIGHT, HEAT AND POWER

Proposed Work

Vt., High Gate—City making plans for 1-story hydro-electric power plant. About $75,000. I. W. Jones, Milton, N. H., Engr.

N. Y., Dunkirk—City votes Aug. 3 on $200,000 for power plant.

N. Y., Poughkeepsie—Vassar College making preliminary plans for boiler plant. D. Sprague, 39 Cortlandt St., New York, Engr.

N. J., Trenton—Lenox, Inc., to build addition to power house on St. Joe's Ave.

N. J., Vineland—Borough Comrs. receiving bids Aug. 1 for addition to power plant. Noted June 8.

Penn., Beaverdale—Logan Coal Co. will make plans for power house. A. Applegard, Gen. Supt. A. B. Corichton, Farmer's Savings Bldg., Engr.

S. C., Hickory Grove—J. S. and S. C. Wilkerson plan electric-light plant.

Fla., Tampa—R. Nettles, Tampa, applied for franchise to construct electric-light plant.

Ala., Greensboro—Hale Light and Power Co., incorporated with $10,000 capital stock, plans electric-light and power plant. E. P. Kimbrough, Greensboro, Pres.

Miss., Calhoun City—City plans electric-light plant.

Ky., Auburn—City plans electric-light and power plant.

Ky., Louisville—Kentucky Distilleries and Warehouse Co., Mellwood and Gregory St., to build boiler room at plant, $10,965.

Ky., Mt. Sterling—City soon votes on $40,000 bonds for electric-light plant. Noted Jan. 20.

Ohio, Cincinnati—Union Gas and Electric Co. made plans for power plant on 4th St., about $1,000,000. C. W. Deforest, Elec. Engr.

Ohio, Cleveland—Bd. of Public Ser. plans boiler house and laundry. About $15,000. E. R. Kinsey, Pres. Bd.

Ohio, Defiance—Trustees Defiance College plan heating plant, about $15,000.

Mich., Lansing—Lansing Fuel and Gas Co. to improve plant. About $250,000.

Mich., Onaway—Onaway Electric Light and Power Co. plans new dam on Black River.

Ill., Normal—City made plans for electric-light plant. Noted June 8.

Minn., Emmons—City election soon to vote on bonds for electric-light plant. E. J. Jackson, Capital Bank Bldg., St. Paul, Engr.

Minn., Ortonville—Otto Tail Power Co., Fergus Falls, plans transmission line to Ortonville.

Kan., Fremont—City plans distribution system and transmission line to connect with plant at Lindsborg.

Kan., Olathe—Attorney General declared election at which citizens voted $50,000 electric-light plant bonds illegal. New election. Noted Mar. 9.

Kan., Sterling—Citizens voted $45,000 electric-light plant bonds. W. J. Coyle, City Clk. Noted June 8.

Neb., Scotia—City making preliminary plans for electric-light system, about $5,000. H. L. Miller, Clk. Martz Engineering Co., Orpheum Bldg., Lincoln, Engr. Noted June 8.

Tex., Palestine—Texas Power and Light Co. plans extending power line 5 mi. About $10,000. E. B. Neiswanger, Dallas, Constr. Engr.

Tex., Rockdale—Texas Power and Light Co., Dallas, granted franchise to construct electric-light plant.

Okla., Muskogee—Muskogee Electric Traction Co. plans power plant, about $100,000.

Okla., Wetumka—City votes Aug. 3 on $4,000 bonds for electric-light plant.

Wash., Deming—Puget Sound Traction, Light and Power Co., Bellingham Div., plans substation.

Ore., Myrtle Creek—City plans election to vote on bonds to improve electric-light plant. M. D. Germond, Redmond, Engr.

Ore., Sumpter—Ben Harrison Mine plans to rebuild substation.

Ont., Stratford—Pub. Utilities Comn. making plans for new boiler house at distribution plant, about $11,000.

Ont., Toronto—Toronto Hydro Electric System, 226 Yonge St., Toronto, made plans addition to substation, about $20,000.

Alta., Peace River—W. D. Cromarty, University of Alberta, Edmonton, made plans for electric generating plant. R. C. Desroches, Ottawa, Secy. Dept. Pub. Wks.

Bids In and Contracts Awarded

N. H., Lancaster—Jones & Linscott let contract hydro-electric power plant to H. P. CUMMINGS CONSTRUCTION CO., Ware, Mass.

N. C., Bridgewater—Southern Power Co. let contracts 3 dams to RINEHART & DENNIS CO., Charlottsville, and HARDAWAY CONTRACTING CO., Columbus, Ga. About $3,000,000.

Mo., Kansas City—Ford Motor Co. let contract 1-story power house, 15th and Winchester St., to VANSANT CONSTRUCTION CO., 314 Dwight Bldg. About $75,000. Noted Jan. 6.

Ont., Orrillia—Council let contract reëquipping electric-light plant and system to BOVINE HYDRAULIC AND ENGINERING CO., Lindsay, about $140,000. Noted June 8.

BRIDGES

Proposed Work

Maine, South Portland—City plans highway bridge over Long Creek, about $4,000. C. West, Mayor.

Mass., Pittsfield—Bd. Pub. Wks. plans bridge on Hubbard Ave., about $10,000.

N. Y., Cohoes—(Official)—City receiving bids about Sept. 15 for bridge between Cohoes and Lansingburg. About $38,500. Noted July 13.

N. Y., Ogdensburg—City plans viaduct. About $15,000.

N. Y., Warsaw—Erie R.R. plans bridge at quarry of American Blue Stone Co., about $12,000. R. S. Parsons, 50 Church St., New York, Ch. Engr.

N. J., Trenton—County to build bridge over Sanhican Creek, about $4,000. T. Tobish, Trenton, Engr.

Penn., Butler—City plans Wayne St. Viaduct. About $30,000.

Penn., Harrisburg—County to repair 7 bridges. Address County Clk., Harrisburg.

Penn., Newcastle—County will let contract for Gardner Ave. Viaduct in fall. T. A. Gilkey, Engr. Noted May 4.

Penn., Pittsburgh—(Official)—County does not plan bridge between Bellevue and city line on north side, as noted in July 13 issue.

Penn., Uniontown—County receiving bids Aug. 11 for 5 bridges. Harry Kisinger, Uniontown, Controller. Noted July 13.

Penn., West Chester—County plans bridge over Elk Creek. Address County Clk., West Chester.

Penn., Williamson—County received only bid for rein.-con. bridge over Dry Run from John Sanders. About $6,000. Noted July 13.

Penn., York—County receives bids soon for 4 bridges. About $75,000. Address County Clerk, York.

W. Va., Buckhannon—(Official)—County receiving bids Aug. 17 for 4 rein.-con. bridges. Address County Clerk, Buckhannon.

W. Va., Hamlin—Lincoln County receiving bids Aug. 4 for bridge over Guyandotte River at mouth Big Hart Creek. Oliver & Maupin, Huntington, Engr.

W. Va., Hanover—(Official)—County receiving bids Aug. 1 for rein.-con. bridge.

Ga., Calhoun—County plans concrete bridge. Address County Clk., Calhoun.

Miss., Brandon—County to build bridge over Farish Slough. Address County Clk., Brandon.

Ky., Paducah—Illinois Central R.R. plans bridge over Ohio River. A. S. Baldwin, Chicago, Ch. Engr.

Ohio, Akron—Summit County receiving bids Aug. 7 for bridge over canal on West Exchange St. About $50,000. U. G. High, Akron, Clk E. W. Paul, Courthouse, Engr. Noted July 6.

Ohio, Cincinnati—County receiving bids Aug. 4 for concrete culvert on Markley Rd. A. Reinhardt, Cincinnati, Clk.

Ohio, Cleveland—County sold $500,000 bridge bonds. R. G. Krause, Cleveland, County Clk.

Ohio, Dayton—County receiving bids Aug. 3 for approaches to Bridge No. 74. W. H. Aszling Dayton, Clk.

BRIDGES—Continued

Ohio, Lower Salem—County plans bridge. Address County Clk., Marietta.

Ohio, Miamisburg—County Comrs. receiving bids Aug. 14 for bridge at Miamisburg. Address County Clerk, Dayton. Noted June 22.

Ohio, Somerville—County made plans for 240-ft. concrete bridge. Fred M. Hammerle, Hamilton, County Surv. Noted Apr. 13.

Ohio, Urbana—City voted $10,000 bridge bonds. E. F. Sweetman, City Engr. Noted May 4.

Ind., Connersville—City plans 4 bridges.

Ind., Lebanon—Boone County receiving bids Aug. 1 for 11 bridges. C. Goodwin, Lebanon, Audr. B. J. Moore, Court House, Engr.

Ind., Petersburg—Pike County receiving bids Aug. 8 for bridge work. J. D. Gray, Audr.

Mich., Ann Arbor—City lets contract bridge over Huron River on Broadway about Sept. 1. Manly Osgood, City Engr. Noted June 1.

Ill., Bloomington—City plans repairing West Locust St. viaduct. About $12,000.

Ill., Pittsfield—Pike County receiving bids Aug. 2 for bridge work. C. Older, Springfield, Bridge Engr.

Ill., Springfield — (Official) — State Highway Comn. receiving bids Aug. 2 for bridge in Flat Branch Township, Shelby County. About $6,340. N. A. Baxter, Shelbyville, County Highway Supt.

Iowa, Carthage—City voted $10,000 bridge bonds.

Iowa, Council Bluffs—City plans free bridge from Council Bluffs to Omaha.

Iowa, Iowa City—County plans to improve Curtis Bridge. Address County Clk., Iowa City.

Minn., Rochester—City plans bridge over west branch Bear Creek at College St. J. C. Utton, City Engr.

Kan., Hutchinson—Arkansas Valley Interurban Co. plans several rein.-con. bridges between Hutchinson and Wichita. Charles D. Bell, Wichita, Ch. Engr.

Kan., Manhattan—County receiving bids Aug. 8 for 5 bridges. Address G. Hungerford, Manhattan, County Clerk.

Kan., Oswego—City receiving bids Aug. 9 for 5 rein.-con. arch bridges.

N. D., Ellendale—County receiving bids Aug. 8 for concrete bridge. C. C. Misfeldt, County Audr., Ellendale.

N. D., La Moure—County receiving bids Aug. 9 for steel bridge over Maple River. O. C. Temple, County Audr., La Moure.

N. D., Mandan—Commercial Club plans wagon bridge over Missouri River between Mandan and Bismarck.

Mont., Miles City—County receiving bids Aug. 12 for steel bridge over Sunday Creek. Address County Clk., Miles City.

Mont., Sidney—City plans bridge and approaches over Yellowstone River.

Mo., Kansas City—City made plans for bridge at 31st and Brighton Ave. About $60,000.

Tex., Dallas—County plans foot bridge over Trinity River on Commerce St. Address County Clk., Dallas.

Okla., Stillwater—County plans rein.-con. bridge. W. T. Keys, Stillwater, County Clk.

Ark., Marion—Crittenden County making preliminary plans for temporary viaduct to connect Harahan Bridge with St. Francis levee, about $85,000. H. G. Ferree, Memphis, Tenn., Engr.

Wash., Burbank—County plans bridge over Snake River at Burbank. Address County Clk., Walla Walla.

Calif., Bakersfield—County receiving bids for bridge over Buttonwillow Slough Aug. 8. Address County Clk., Bakersfield. Noted June 29.

Calif., Live Oak—(Press)—County plans bridge over Feather River, about $120,650. Address County Clk., Yuba City.

Calif., Nevada City—County plans bridge over Dry Creek, about $4,700. Address County Clk., Nevada City.

Calif., Red Bluff—County making plans for bridge over Beegum Creek. C. Luning, Surv. Address County Clk., Red Bluff.

Calif., Rio Vista—Solamo and Sacramento Counties making plans for bridge across Sacramento River at Rio Visto. F. A. Steiger, Fairfield, Engr. Noted July 13.

Calif., Sacramento—(Official)—State Highway Comn. receiving bids Aug. 4 for 3 bridges, Sect. D, Route 2. Mayberry & Parker Los Angeles, and F. M. L. Johnson, Santa Barbara, Des. Engr.

Bids In and Contracts Awarded

Maine, Fairfield—Maine Central R.R. let contract 1st section bridge to T. STUART & SON, 222 Pearl St., Newton, Mass.; 2nd section to LATHROP & SHEA, 185 Church St., New Haven. About $625,000.

Mass., Salem—County Comrs. received bids for rebuilding bridge over Danvers River between Salem and Beverly from H. P. Converse Co., 88 Broad St., Boston, $201,946; Holbrook Cabot & Rollins Corporation, 6 Beacon St., Boston, $213,466; George T. Rendle, 270 Condor St., East Boston, $243,302. Noted July 6.

N. J., Somerville—(Official)—County let contracts for bridge work as follows: Miller Ave. bridge to JOHN ALGAIR, JR., Somerville, 5 bridges to D. REILY, Belleville, Western Pier to HICKEY & HOUGHTON, Somerville. Noted July 13.

Penn., Athens—State Bd. Pub. Grounds and Buildings received low bids bridge across north branch of Susquehanna River at Athens from Whitaker & Diehl, Harrisburg, $82,048; Pennsylvania Steel Co., Steelton, $85,996; W. S. Rae, Pittsburgh, $90,867. Noted July 6.

Penn., Berkeley—Philadelphia & Reading Ry. let contract bridge over Irish Creek to C. H. REINARD, Bloomsburg.

Penn., Hollidaysburg—Blair County let contract bridge over Tipton Run to D. E. WENTZEL CO., Bellwood, about $6,000.

Penn., Philadelphia—City let contract repairs to Bridge St. Bridge over Frankford Creek to INTERSTATE ENGINEERING AND CONSTRUCTION CO., Coleman Bldg., Philadelphia. About $5,100.

Penn., Pittsburgh—City let contract Plymouth Bridge to HERRICK CONSTRUCTION CO., about $6,749.

Ky., Oneonta—County Fiscal Court, Newport, rejected bids for bridge.

Ohio, Cincinnati—City let contract temporary bridge over Miami River at Millers Ford to C. C. HODGEON. About $4,800.

Ohio, Columbus—City let contract to repair Front St. Viaduct to E. M. SCULLY, $7,700.

Ohio, Curtice—Summit County let contract superstructure bridge over Cedar Creek to MODERN CONSTRUCTION CO., Fremont.

Ind., Frankford—(Official)—County let contracts 3 bridges to WILLIAM J. NEES, THOMPSON & KELLY and C. F. GREEN, Frankford. About $6,383, $3,567, $3,565. Noted July 13.

Ind., Jasper—County let contract bridge to BLUNKER & GEHLHAUSEN. About $9,798. Noted June 29.

Mich., Bay City—City let contract for repairing Cass Ave. bridge to STANDARD ENGINEERING CO., Toledo. About $28,900. Noted Apr. 20.

Mich., Flint—(Official)—Chevrolet Motor Co. let contract bridge across Flint River from Stevenson to Wilcox St. to AMERICAN BRIDGE CO., Detroit. Noted July 13.

Ill., Mackinaw—(Official)—County let contract bridge in Groveland Township to L. R. and C. C. SMITH, Washington, $4,373. Noted July 13.

Mich., Saginaw—(Official)—City received bids for repairing and rebuilding Mackinaw St. Bridge from Joliet Bridge and Iron Co., $14,890; Wynkoop-McGormley Co., $14,950; Standard Engineering Co., $15,760. Noted July 13.

Ill., Oswego—Kendall County let contract Cowdrey Bridge to J. BUIZER, Hillsdale.

Wis., Cato—Manitowoc County let contract 2 bridges to ZENDALE CEMENT CO., Manitowoc.

Wis., Chippewa Falls—(Official)—City let contract concrete arch bridge over Duncan Creek on Spring St. to IOWA BRIDGE CO., Minneapolis. About $13,950. Noted July 6.

Wis., Mauston—County let contracts bridges as follows: 4 bridges to W. D. JONES, Mauston, about $4,205; 2 bridges to WORDEN-ALLEN CO., Milwaukee, about $5,284; 3 bridges by day labor.

Minn., Dunnell—Town let contract bridge over Lake Fremont to F. REIMAN, Ceylon.

Minn., Granite Falls—County let contract bridge No. 2237 to M. A. ADAMS, 927 Andrus Bldg., Minneapolis. About $6,900.

Minn., Kasson—County let contract bridges No. 2289 and 2290 to Iowa Bridge Co. About $5,238.

Minn., Morris—Town let contract bridge to M. A. ADAMS & CO., 927 Andrus Bldg., Minneapolis.

Minn., St. Paul—City let contract for 2 north spans Mississippi St. Bridge to ST. PAUL FOUNDRY CO., Como Ave. and Mackubin St., $22,000. Noted July 6.

Minn., Winona—County to construct State Bridge No. 1509 by day labor. C. W. Anding, County Audr., Winona. Noted July 6.

Kan., Kansas City—Kansas City Terminal Railway Co. let contract 3-span, double-deck bridge across Kaw River at Osage Ave. to ARKANSAS BRIDGE CO., 2nd and Wyandotte St., Kansas City, Mo. About $1,500,000.

S. D., Huron—Headle County let contract culverts to GILBERT MANUFACTURING CO., Aberdeen.

S. D., Madison—Lake County let contract culverts to SIOUX FALLS METAL CULVERT CO., Sioux Falls.

S. D., Watertown—Codington County let contract bridge to J. D. BURT, Shore, about $5,000.

Tex., Richmond—City let contract bridge across Big Creek to RICE & WINDER, Richmond. About $25,000. Noted May 11.

Wash., Spokane—City let contract Division St. Bridge to WASHINGTON PAVING CO., Seattle, $108,443. Noted Feb. 17.

Wash., Spokane—City let contract Trent A Bridge to WASHINGTON PAVING CO., Seattle, $93,463.

Calif., Baird—State Highway Comn., Sacramento, let contract 2 bridges in Shasta County to H. S. WILLIAMS, Sacramento, $18,044. Noted July 13.

Calif., Oakland—County let contract Crow Canyon Bridge to WESTERN CONSTRUCTION Co., $7,289.

Calif., Oakland—County let contract bridge in Pleasanton Rd. Dist. to D. McDONALD, $11,0

Calif., Redding—County received low bids 2 bridges from W. Stephens, Redding, about $6,000.

Calif., Success—County let contract bridge over Tule River near Success to JOHNSON BROS., Kingsburg, $7,250.

WATER-WORKS

Proposed Work

Mass., Brookline—Council passed ordinance for mains in South and See St., about $10,000. F. F. Forbes, Supt.

Mass., Worcester—Citizens voted $50,000 bonds for reservoir at Howland Hill. G. W. Batchelder, Gen. Supt. Noted July 20.

Conn., Beacon Falls—Beacon Falls Rubber Shoe Co. making plans for water tower. F. A. Clark, Arch.

N. Y., Mt. Morris—City making plans for supply line, about $20,000. J. F. Dickey, Chn. Municipal Bd. C. C. Hopkins, Cutler Bldg., Rochester, Engr.

N. Y., Oxford—Bd. Mgrs. Women's Relief Corps Home receiving bids Aug. 8 for water supply for Relief Corps Home. G. Griffith, Pres.

Penn., Easton—City ordered by State Dept. of Health to improve works. S. G. Dixon, State Comr.

Penn., Erie—(Official)—Water Comrs. extended date for bids for pumping engine to July 28. Chester & Fleming, Pittsburgh, Engr. Noted July 6.

Md., Annapolis—Council defeated proposition for filter plant, about $23,000.

Md., Frederick—City election Aug. 7 to vote on water-works bonds.

Va., Chilhowie—City making plans water-works and sewer systems, about $25,000. J. D. Tate, Mayor. Noted Feb. 3.

La., Westwego—Citizens plan works. V. A. Pitre, interested.

Ohio, Alliance—City receives bids about Aug. 1 for filter plant in North Walnut St., about $120,000. L. A. Tonkle, Supt. Chester & Fleming, Union Bank Bldg., Pittsburgh, Engr.

Ohio, Greenville—(Official)—City soon receives bids for steam-driven air compressor and air-lift equipment for 2 wells. J. W. Moore, 47 Union Trust Bldg., Indianapolis, Consult. Engr.

Ohio, Lucasville—City plans works. Address J. H. Brant, Bd. Pub. Affairs.

Ohio, Mansfield—City receiving bids Aug. 15 for $27,000 water bonds. Hoyt Johns, City Audr. Noted June 22.

Ohio, Ravenna—City to sell $60,000 water bonds Aug. 14. W. A. Root, Audr. J. S. Mallette, Supt. Noted Apr. 27.

Ohio, Salem—City receives bids about Aug. 15 for mains and reservoir, about $50,000. J. M. Russell, Dir. Pub. Ser.

Ohio, West Park—Bd. Trus. receiving bids July 31 for 6-in. main in Bennington Ave. D. W. Nichols, Clk.

Ind., Lawrenceburg—Lawrenceburg Booster Club plans works, about $40,000. E. G. Bielby, Mayor.

Ill., Barry—City to vote on water-works. About $24,000. C. E. Beavers, Mayor—Noted Apr. 6.

Ill., Glenview—Bd. Trustees receiving bids Aug. 1 for tank and tower and pumping machinery and station. Marr, Green & Co., 17 North La Salle St., Chicago, Engr.

Ill., Glenview—Bd. Local Improvements receiving bids Aug. 1 for mains in Lake and other streets. About $25,773. Marr, Green & Co., 17 North La Salle St., Chicago, Engr.

Iowa, Ankeny—City voted $12,000 water-works bonds.

Iowa, Clinton—City authorized J. G. Thorne, City Engr., to make plans for system.

Iowa, Ft. Madison—Citizen's Water Co. soon lets contract for filter plant. Noted June 8.

Iowa, Milton—Citizens voted $18,000 water-works bonds.

Iowa, New Sharon—Citizens defeated $4,000 water-works bonds. Noted June 22.

Iowa, Waterloo—City plans extending water mains. J. P. Perry, Supt.

Minn., Austin—City voted $6,000 water-works bonds. William Todd, Supt.

Minn., Lakeside—City to extend mains about 1 mi.

Minn., Marshall—City plans mains. A. G. Rumford, Clk.

Minn., West St. Paul—(St. Paul post office)—City receiving bids in fall for water mains.

Kan., Caldwell—City plans to improve and extend works. I. M. Horton, Mayor.

WATER-WORKS—Continued

Kan., Geuda Springs—Citizens voted $17,000 water-works bonds. Benham Engineering Co., Colcord Bldg., Oklahoma, Engr. Noted Feb. 17.

Kan., Macksville—Citizens voted $30,000 water-works bonds. W. B. Rollins & Co., 439 Midland Bldg., Kansas City, Mo., Engr. Noted June 22.

Neb., Dixon—City receiviing bids Aug. 2 for system, about $6,500. R. Flaherty, City Clk. Noted July 6.

Neb., Scotia—City making preliminary plans for works, about $10,000. H. L. Miller, Clk. Martz Engineering Co., Orpheum Bldg., Lincoln, Engr. Noted June 8.

Neb., Seward—Council appropriated $6,000 for improving system. W. S. Souders, Mayor.

Neb., Superior—City plans to abandon present well supply and build filter and treating plant. C. Hunter, Supt.

S. D., Millbank—City plans works. V. Halverson, City Clk.

N. D., Fargo—City receiving bids Aug. 16 for mechanical stokers and smoke eliminating fuel saving devices at pumping station. A. R. Watkins, Audr. F. L. Anders, Supt.

Wyo., Riverton—City receiving bids Aug. 3 for improving works. F. H. Allyn, Clk. C. C. Carlisle, 212 First National Bank Bldg., Cheyenne, Consult. Engr. Noted June 29.

Mont., Ft. Benton—County receiving bids Aug. 7 for works, about $10,000. J. S. Culbertson, County Engr.

Mont., Highwood—County receiving bids Aug. 7 for works, Special Improvement Dist. No. 1. L. M. Bond, Ft. Benton, Clk. Gerharz-Jaqueth Engineering Co., Great Falls, Engr. Noted June 22.

Mo., Kansas City—City plans pumping station. W. W. Hardin, interested.

Mo., Steelville—Citizens defeated $10,000 water-works bonds. Noted July 20.

Ark., Nashville—Preliminary plans made for system. Winters & Dove, Ft. Smith, Engr. Noted Nov. 11.

Tex., Austin—Gulf, Colorado & Santa Fe Ry. plans 290,450,000 gal. impounding reservoir on Killdugan Creek and 1 of 300,000,000 gal. on Brown Creek. F. Merritt, Galveston, Ch. Engr.

Tex., Shiner—City plans to improve and extend system.

Okla., Ardmore—City election July 31 to vote on $45,000 water-works bonds G. H. Bruce, City Clk.

Okla., Bromide—Citizens defeated water-works bonds. Noted June 22.

Okla., Clinton—Citizens defeated $225,000 water-works bonds. Noted June 22.

Okla., McLoud—Citizens voted $15,000 water works bonds. Benham Engineering Co., Colcord Bldg., Oklahoma, Engr. Noted July 6.

Okla., Milburn—City defeated $21,000 water-works bond. Noted June 8.

Okla., Tulsa—City election Aug. 4 to vote on $300,000 water-works bonds. H. H. Wyss, City Engr. Noted May 25.

Utah, Vernal—City election Aug. 8 to vote on $23,000 improvement bonds.

Ariz., Wickenburg—City receives bids for improving works. H. B. Claflin, Phoenix, Engr.

Wash., Auburn—City soon receives bids for 8,000 ft. mains from 1st to Milwaukee St. F. Lemar, City Clk. Noted Nov. 1.

Wash., Factoria—School Dir. receiving bids Aug. 1 for gasoline engine and pumping head for 130-ft. deep well.

Wash., Langley—City plans to improve and extend system. H. J. English, Mayor.

Calif., Bairdstown—City election Sept. 5 to vote on $200,000 distributing system bonds.

Calif., San Dimas—San Dimas Water Co., making plans for reservoir north of Eucalyptus Ave. H. W. Collins, Pres. Noted June 8.

Sask., Assiniboia—City receiving bids Aug. 8 for works. J. R. Nolan, Secy.-Treas. Murphy & Underwood, Saskatoon, Consult. Engr. Noted Mar. 16.

Alta., Lethbridge—City receiving bids Aug. 5 for filter plant. A. M. Grace, Comr. Pub. Wks. Noted Mar. 30.

Bids In and Contracts Awarded

N. Y., Walden—City let contract repairing dam to FALLKILL CONSTRUCTION CO., Highlands.

Ohio, Cleveland—City let contract pipe to J. McNEIL & BROS. CO., $8,050.

Ohio, Columbus—City received low bid lift pump from Dravo, Doyle Co., Pittsburgh, $19,475. Noted June 29.

Ill., Rock Island—City received low bid water tank and tower from Rock Island Bridge and Iron Works, $9,070. Noted June 22.

Ill., Waukegan—City let contract c.-i. pipe to J. M. DONOHUE, Stevens Point, Wis., $29,077. Noted June 1.

Wis., Madison—City let contract reservoir to J. R. McDONALD, Black River Falls. About $15,950.

Wis., Oshkosh—City received low bid c.-i. pipe from American Cast Iron Pipe Co., Minneapolis.

Iowa, Ossian—(Official)—Town let contract works to DES MOINES BRIDGE AND IRON WORKS, Des Moines, $14,916. Noted July 13.

Minn., Perham—City let contract $1,000,000-gal. tank on 100-ft. tower to DES MOINES BRIDGE AND IRON CO., Des Moines. About $9,720. Noted June 8.

Mont., Great Falls—City let contract filter plant to OLDON & JOHNSON, Missoula, about $175,000. Noted Feb. 24.

Tex., Dallas—City let contract valves and fittings to RENNSSELAER VALVE CO. Noted July 13.

Calif., Covina—City received low bid wells from D. A. Beck, Los Angeles. D. S. Stafford, City Clk.

SEWERS

Proposed Work

Mass., Newton—Council authorized $6,000 bond issue for South Meadow Brook Drainage.

Conn., Bridgeport—City making plans sewage pumping station. Hering & Gregory, 170 Broadway, New York, Consult. Engr.

N. Y., Olean—City making plans for sewer. West State St., about $11,000. E. E. Allen, City Engr. Noted July 20.

N. Y., Schenectady—City plans catchbasins in various streets. W. T. Wooley, City Engr.

N. J., Haledon—(Paterson post office)—City making plans for sewer system. H. J. Harder, Paterson, Engr.

N. J., Hoboken—City receiving bids Aug. 2 for sewers. D. A. HAGGEN, Clk. J. O. Whitemore, City Engr. Noted June 22.

N. J., Pitman—Citizens voted $110,000 sewer bonds. Noted Apr. 6.

N. J., Prospect Park—(Paterson post office)—City receives bids for sewer system and disposal plant. H. J. Harder, Paterson, Engr.

N. J., Woodbury—City plans sewage plant. Remington & Vosbury, 6th and Market St., Camden, Engr.

Penn., Clarion—Borough plans trunk sewer, about $40,000. H. T. Kissell, Engr.

Va., Chilhowie—See item under "Water-Works."

Fla., St. Cloud—City election soon to vote on $21,000 bonds for sewers and disposal plant.

Fla., St. Petersburg—City plans sewage plant. E. Kitchen, City Engr.

Ohio, Cleveland—City receiving bids Aug. 3 for sewers in Lake Shore, Blvd., Nathaniel, Mandalay, Way and Chester St. R. Hoffman, City Engr.

Ohio, Cleveland Heights—(Warrensville post office)—Village receiving bids Aug. 7, storm and sanitary sewers on Starrboro Rd. H H. Canfield, Clk. F. A. Pease Engineering Co., 802 Marshall Bldg., Cleveland, Engr.

Ohio, Coshocton—City receiving bids Aug. 7 for sewage plant, about $30,000. C. Fisher, City Engr. Chester & Fleming, Union Bank Bldg., Pittsburgh, Engr.

Ohio, Lancaster—City made plans sewers in West Wheeling and South High St. J. Triggs, City Engr. Noted June 15.

Ohio, Middletown—City making plans storm and sanitary sewers. C. E. Morrison, City Engr.

Ohio, Mt. Gilead—City plans sewer system and sewage-disposal plant.

Ohio, New Bremen—Village receiving bids Aug. 12 for storm sewer. H A. Schrage, Clk.

Ohio, Shaker Heights—(Cleveland post office)—Village receiving bids Aug. 1, storm and sanitary sewers. B. W. Willard, 804 Marshall Bldg., Cleveland, Engr.

Ill., Evanston—City making plans for sewer system, about $65,000. I. Brower, City Engr. Noted Mar. 2.

Ill., Glencoe—City making plans for sewer system and pump, about $5,000. Winders & Marsh, Engr.

Wis., Menasha—City plans sanitary sewer. S. S. Little, City Clk.

Wis., Wausau—Bd. Pub. Wks. receiving bids Aug. 10 for sewer in Adams St. B. C. Gowan, City Engr.

Iowa, Charles City—City voted $75,000 sewer bonds. W. S. Beattie, City Engr. Noted July 20.

Iowa, Oxford Junction—City soon lets contract for sewer system. M. Tschirgi & Son, 712 American Trust Bldg., Cedar Rapids, Engr. Noted June 15.

Minn., Chisholm—Village plans sewers, alleys west 5th Ave E. E. Webber, Pres.

Minn., Mabel—City receives bids in August for sewers and sewage plant. J. F. Druar, 311 Commercial Bldg., St. Paul, Engr.

Kan., Chanute—(Official)—City receiving bids July 29 for sewers. About $5,000. C. G. Wood, City Clk. Noted July 13.

N. D., Bismarck—Council voted to build storm sewer in eastern section, about $55,000.

Mont., Anaconda—See item under "Streets and Roads."

Mo., Carthage—City receives bids for storm sewers. About $10,000. F. B. Newton, City Engr.

Mo., Harrisonville—City election Aug. 4 to vote on bonds for sewers and sewage plant. G. Bird, Harrisonville, Engr. Noted June 22.

Mo., Sedalia—See item under "Streets and Roads."

Tex., Amarillo—City soon receives bids for sewer extensions. R. B. Newcombe, City Engr.

Okla., Ardmore—City election July 31 to vote on $20,000 sewer bonds. G. H. Bruce, City Clk.

Okla., Ringling—City making plans sewers and disposal plant, about $30,000. McIntosh-Walton Co., State Bank Bldg., Oklahoma, Engr. Noted July 6.

Ont., Toronto—City receiving bids Aug. 1 for storm overflow sewer in Blackhall Ave. T. L Church, Mayor.

B. C., Vancouver—Bd. Wks. authorized sewer on 11th Ave., about $4,500. F. L. Fellowes, City Engr.

Bids In and Contracts Awarded

Mass., Agawam—City let contract sewer system to L. C. FAY, 318 Main St., Springfield, about $30,000. Noted June 29.

Mass., Watertown—City to build surface drains in Belmont and Arlington St. by day labor, about $30,000.

R. I., Providence—Bd. Contract and Supply let contract sewers in Slater, Moure and Cuzon Ave. to F. R. SHAW; Chad Brown St., A. AIELLO. Noted June 22.

Conn., Danielson—City let contract sewers to W. H. BYRNE, Hartford.

Conn., Greenwich—Sewerage Comn. let contract disposal works and pumping station for Borough and Sewer Dist. No. 6 to SUBURBAN ENGINEERING CO., 15 West 38th St., New York, $67,662. Noted July 6.

N. Y., Auburn—City let contract sewer Prospect St. and Lyman Ave. to J. C. HEALEY, $5,000.

N. Y., New York—(Borough of Bronx)—(Official)—Borough let contract sewers in East 177th St. and Bainbridge Ave. to P. B. STANTON, 2327 Walton Ave., $26,425; Gifford Ave., DI-MENNA & DELBALSO. Noted July 20.

N. Y., New York—(Borough of Manhattan)—(Official)—Borough received low bids receiving basins altered and improved from: Burnside Contracting Co., 270 Burnside Ave., Park Ave., $8,515, 3d Ave., $21,996, Madison Ave., $7,887; H. E. Fox Construction Co., 31 East 125th St., Park Ave., $6,684; J. J. Haduvin, Bowery, $5,739. Noted July 13.

N. Y., Ossining—City let contract sewer Market and Hill St. to LYONS & SYLVESTER, 23 Ann St.

N. J., Newark—(Official)—Passaic Valley Sewerage Comrs. let contract Sect. 22 of Lawrence St. Branch Intercepting Sewer to CULP CO., INC., Paterson, $46,537. Noted July 6.

Penn., Bradford—City let contract sewer Bank St. to J. B. SHEEHAN.

Penn., Johnsonburg—City let contract sewage plant to H. K. KOONS, trunk line sewer to MORACCO & ROSS. Noted June 22.

N. C., Henderson—(Official)—City let contract sewers and disposal plant to A. H. GUION, Charlotte, $11,669. Noted July 6.

Ohio, Akron—City let contract sewers Monroe St. to McALONAN BROS., 197 West Buchtel Ave., Bellvue; Fern and Easter St., M. H. O'TOOLE, 155 Gale Ave.

Ohio, Bowling Green—Bd. Pub Ser. let contract sewers West Merry Ave. to P. W. BREIASCH, Waterville; South Maple St., FINCH ENGINEERING CO., Bowling Green.

Ohio, Cleveland—City let contracts to MANSON CO., 120 B. & L. E. Bldg., $14,011, sewers in West 55th St., and to J. GALLAGHER, $20,635, sewers in East 154th St. R Hoffman, City Engr.

Ind., Portland—(Official)—City let contract storm and sanitary sewers to ADAM BROS., Lebanon.

Wis., Clintonville—City let contract sewers in Young, Grover and Lincoln Ave. to R. WERSWA & SON, Oshkosh. Noted July 6.

Iowa, Burlington—(Official)—City let contract sewers in North Nth, Sycamore and Bartlett St. to M. W. DALY; South 3d St. to YOUNG & BUSCH CONCRETE CO., both of Burlington.

Iowa, Corning—City let contract sewers northern section to F. O. AKIN.

Minn., Worthington—City let contract sewer to THORNTON BROS., Scandinavian-American Bank Bldg., St. Paul, $34,393. Noted Apr. 27.

Kan., Ellis—City let contract sewer system to EVERETT & BURT, Hutchinson, $38,927. Noted July 6.

S. D., Aberdeen—City let contract sanitary sewer to A DETLING & CO.

Mo., Stanberry—City let contract sewers to W. F. POWERS, Guthrie, Okla., $18,817. Noted June 22.

Tex., Corsicana—City let contract activated sludge sewage disposal plant to E. M. SCHEFLOW, Elgin, Ill., $7,984. Noted July 20.

Tex., Dallas—City Com. let contract sanitary sewer from Zangs Blvd. to Winnetka Heights to J. M. PRESTON, $17,208

SEWERS—Continued

Tex., Houston—City let contracts north side disposal plant and Willow St. pumping plant to HORTON & HORTON, $195,000; south side disposal plant and pumping station, C. BASHAM, $90,000. Noted July 6.

Man., The Pas—City let contract sewage plant to NORTHWESTERN CONSTRUCTION CO., Regina, $4,490.

GARBAGE

Proposed Work

N. Y., Schenectady—City to issue $17,000 bonds for equipment for garbage collection. W. T. Wooley, City Engr.

N. J., Hightstown—City soon lets contract for collection of garbage.

Penn., Philadelphia—(Torresdale)—City plans ash-handling plant at Torresdale. Chester E. Albright, City Engr.

Tenn., Nashville—City plans incinerating plant. About $25,000. W. W. Southgate, City Engr.

Mo., Kansas City—City retained Rudolph Hering, 170 Broadway, New York, to advise on garbage disposal. Noted Oct. 28.

Que., Outremont—City receiving bids Aug. 2 for garbage incinerator. E. T. Sampson, City Clk. Noted Apr. 27.

STREETS AND ROADS

Proposed Work

Maine, Portland—Comr. Pub. Wks. receiving bids Aug. 21 for paving portion Congress St. E. M. Hunt, Comr. B. Bradbury, Jr., City Engr.

N. H., Franklin—City soon receives bids for paving portion Central St. J. C. Nowell, St. Comr.

Mass., Brookline—Selectmen receiving bids July 31 for paving Pearl St. E. A. McEttrick, Secy.

Mass., Chicopee—Council appropriated $4,500 for resurfacing Church St. and $6,700 for Britton St. F. P. Cobb, City Engr.

Mass., Marlboro—Council plans to pave Main, West Main, Highland and Pleasant St., about $18,000. W. J. Simonds, City Engr.

Mass., Reading—Bd. Selectmen receiving bids Aug. 1 for highway.

Mass., Springfield—City plans to improve St. James Ave., about $9,700. F. H. Clark, City Engr.

R. I., Cranston—City plans to pave 2 mi. Cranston St., about $30,000. E. E. Goff, City Engr.

R. I., Woonsocket—Council appropriated $6,000 for grading high school grounds. F. H. Mills, City Engr.

N Y., Little Valley—City will pave Main St., concrete, about $10,000. G. I. Oakley, City Engr.

N. Y., New Rochelle—Council to spend $19,000 for street improvements. F. A. Hadert, City Engr.

N. Y., New York—(Borough of Brooklyn)—Borough Pres., Room 2, Borough Hall, receiving bids Aug. 2 for improving various streets.

N. Y., New York—(Borough of Richmond)—Borough President, Borough Hall, St. George, New Brighton, receiving bids Aug. 3 for improving portion Broadway.

N. Y., New York—(Borough of Richmond)—Borough Pres., Borough Hall, St. George, New Brighton, receiving bids July 31 for improving portion Westervelt Ave.

N. Y., New York—(Borough of Richmond)—Borough Pres., Borough Hall, St. George, New Brighton, receiving bids Aug. 4 for concrete sidewalks on north side Amboy Rd., also crosswalks across streets intersecting Amboy Rd.

N. Y., Utica—City making plans for paving Rutgers St., about $20,000. J. Kemper, City Engr.

N. J., Bayonne—City Comrs. plan to pave 36th and 54th St., asphalt, also improve North St. W. L. Clarkson, City Engr.

N. J., Bound Brook—County receiving bids Aug. 1 for paving 8,000 sq.yd., brick. F. A. Dunham, Engr. in charge.

N. J., Jersey City—Bd. City Comrs. receiving bids Aug. 1 for improving Stevens Ave., bituminous concrete. C. A. Van Keuren, City Engr.

N. J., Orange—City plans to improve Central Ave., bituminous surfacing. F. T. Crane, City Engr.

N. J., West Hoboken—Council plans paving portion Savoye St., bituminous concrete. A. L. Wachlin, Town Clk.

N. J., West New York—Town Council receiving bids Aug. 8 for improving portions Polk, 21st, 9th and 15th St. L. Wolfe, Clk.

N. J., Woodbury—St. Com. plans to improve streets, about $35,000.

Penn., Connellsville—Council passed ordinance to improve Murphy St.

Penn., Harrisburg—City plans to curb and pave portion River St., asphalt. M. B. Cowden, City Engr.

Penn., Lock Haven—City receiving bids Aug. 1 for paving Henderson and East Main St., vitrified brick. C. E. Oherheim, City Clk. Noted July 13.

Penn., Philadelphia—Council plans to repave portion 8th St., wood block. C. Albright, City Engr.

Penn., Pittsburgh—Council voted to pave South 21st and Fredonia St., about $19,000. R. Swan, City Engr.

Penn., Roaring Spring—Borough plans to pave southern end Cemetery Ave.

Penn., Royersford—Council to spend $15,000 for street improvements.

Penn., Warren—City plans to improve 4th Ave., about $5,000. N. S. Rogers, Engr.

Penn., West Homestead—(Homestead post office)—Borough voted $50,000 bonds paving portion 8th Ave. Noted July 20.

Penn., Wilkes-Barre—City making plans paving Solomon St., brick, and Ruddle St., asphalt. M. C. Murray, Supt. Sts. and Pub. Imprvt. B. K. Finch, City Engr.

Del., Wilmington—Newcastle County Levee Court plans to improve Philadelphia Turnpike, about $8,000. Address County Clk., Wilmington.

Md., Baltimore—City receiving bids Aug. 2 for improving and paving various streets. R. M. Cooksey, City Engr.

Md., Baltimore—State Rd. Comn. receiving bids Aug. 8 for 21 mi. state highways. A. Shirley, Baltimore, State Highway Engr.

Va., Suffolk—City making plans resurfacing portion Washington St., bitulithic, about $6,000. R. H. Brinkley, City Engr.

W. Va., Fairmont—County receiving bids Aug. 3 for 20,500 tons limestone. A. G. Martin, Fairmont, Clk. County Court. J. R. Wilson, First National Bank Bldg., Mannington, Engr.

W. Va., Fairmont—County receiving bids Aug. 3 for 101,765 sq.yd. brick. A. G. Martin, Fairmont, Clk County Court. J. R. Wilson, First National Bank Bldg., Mannington, Engr.

W. Va., Huntington—Cabell County to sell $200,000 road bonds July 20. Address County Clk., Huntington.

W. Va., Moundsville—Council receiving bids Aug. 14 for paving portion Elm Ave. A. Purdy, City Engr.

W. Va., North View—(Clarksburg post office)—(Official)—Council receiving bids Aug. 5 paving and curbing Turnpike, 7th and 6th St. and Goff Ave. C. A. Osborn, 510 Union National Bank Bldg., Clarksburg, Engr. Noted Apr. 27.

N. C., Burgaw—Pender County, Grady Township, election Aug. 12 to vote on bonds for road work. Address County Clk., Burgaw.

N. C., Jonesboro—City voted $5,000 street improvement bonds.

Fla., Lakeland—Polk County to sell $1,500,000 road bonds Aug. 7. J. A. Johnson, Bartow, Clk. Noted June 15.

Fla., Palatka—Putnam County receiving bids Aug. 7 for improving Palatka to Jacksonville Rd. C. E. Rowton, Palatka, Chn. County Comrs.

Fla., St. Cloud—City plans election to vote on $15,000 bonds to improve portions New York and Pennsylvania Ave. and 10th and 11th St.

Fla., Tallahassee—Leon County to sell $100,000 paving bonds Aug. 14. O. C. Van Brunt, Tallahassee, Clk.

Ala., Camden—County receiving bids Aug. 14 for 5½ mi. Camden and Ackerville Rd. B. Hughes, Camden, Rd. Superv.

Miss., Jackson—Hinds County, Third Dist., plans bond issue for road work.

Miss., Jackson—Hinds County receives bids road work in First and Fifth Dists., about $100,000. W. B. Montgomery, Jackson, Engr.

Miss., Magnolia—City receiving bids Aug. 5 for 55 mi. gravel roads. L. L. Lampton, City Comr.

La., Alexandria—Rapides Parish, Rd. Dist. No. 8, voted $60,000 road bonds. Address Police Jury, Alexandria.

La., Arcadia—Bienville Parish, Wards 1 and 2 voted $30,000 road bonds. Address Police Jury, Arcadia.

La., Leesville—Vernon Parish Police Jury sold $150,000 road bonds. J. F. Smithis, Leesville, Pres. Noted Apr. 13.

La., New Orleans—(Official)—Highway Dept. of Bd. State Engrs., Room 104, New Orleans Court Bldg., receiving bids Aug. 7 for Des Allemands-Raceland section New Orleans-Houma Highway, Lafourche Parish. W. E. Atkinson, State Highway Engr.

Tenn., Athens—McMinn County election Nov. 7 to vote on $300,000 road bonds. Address County Judge, Athens. Noted July 20.

Tenn., Centerville—Hickman County plans election to vote on $225,000 road bonds. J. T. Bates, Centerville, County Judge.

Tenn., Kingston—Roane County Court plans to spend $25,000 for road work. Address County Clerk, Kingston.

Ky., Barbourville—Fiscal Court Knox County receiving bids Aug. 1 for grading road from Barbourville to Flat Lick, 8 mi., road from Bailey's Switch to Corbin, 13 mi. R. P. Black, Barbourville, Clk.

Ky., Bedford—(Official)—Trimble County receiving bids Aug. 8 for county road between Bedford and La Grange. R. Wiley, Frankfort, Comr. Pub. Rd.

Ky., Bedford—(Official)—Trimble County receiving bids Aug. 8 for county road between Bedford and Campbellsburg. R. Wiley, Frankfort, Comr. Pub. Rd.

Ky., Princeton—(Official)—Caldwell County receiving bids Aug. 1 for improving Princeton-Eddyville Rd. R. Wiley, Frankfort, Comr. Pub. Rd. Noted June 22.

Ohio, Akron—City receives bids about Aug. 25 for improving portion McGowan St. J. A. Gehres, City Engr. Noted May 25.

Ohio, Akron—City receives bids about Aug. 1 for improving Day and Stone St., about $8,000. J. A. Gehres, City Engr.

Ohio, Akron—Summit County Akron, receiving bids Aug. 10 for improving Aurora Pond Rd. in Summit, Cuyahoga, Geauga and Portage Counties, about $8,525.

Ohio, Belpre—Washington County soon receives bids for road work. Address County Clk., Marietta.

Ohio, Canton—County to sell $128,500 paving bonds July 26. W. C. Schick, Canton, Clk.

Ohio, Cincinnati—City plans to pave portion Gilsey Ave., bituminous macadam, about $11,676. F. S. Krug, City Engr.

Ohio, Cleveland—City receiving bids Aug. 2 for paving East and West Blvds., about $50,000. R. Hoffman, City Engr.

Ohio, Cleveland—City plans to pave McBride, Haltworth, Locke, East 128th, Cedar and East 19th St. R. Hoffman, City Engr.

Ohio, Conneaut—City receiving bids about Oct 1 for paving Mill, 16th and Liberty St. and Madison Ave. W. C. Dickey, City Engr.

Ohio, Flushing—City receiving bids Aug. 7 for paving High St., brick or concrete. W. C. Fawcett, Martins Ferry, Engr.

Ohio, Greenfield—Village receiving bids Aug. 8 for improving portions 5th, Midway and Lafayette St., about $12,000. E. M. Conner, Clk.

Ohio, Greenville—Council passed resolution to improve portion Washington Ave.

Ohio, Holloway—(Official)—City sold $6,000 bonds for improving Main St. Noted June 29.

Ohio, Lima—(Official)—City receiving bids Aug. 3 for improving portion South Metcalf St. J. I. Heffner, City Clk. Noted June 22.

Ohio, Lima—(Official)—City receiving bids Aug. 3 for improving portion Shawnee St. J. I. Heffner, City Clk.

Ohio, Lima—City receiving bids Aug. 3 for improving portion East Elm St. J. I. Heffner, City Clerk.

Ohio, New London—(Official)—Village receiving bids Aug. 25 for improving portion South Main St. J. W. Byers, Clk.

Ohio, Ravenna—City receiving bids Aug. 7 for improving portions Page, Grant and Prospect St. and Mill Rd. W. H. Linton, City Engr. Noted May 18.

Ohio, Salem—Council passed resolution to improve portion Raymond St. B. M. French, City Engr.

Ohio, Salem—Council passed resolution to improve portion Getz St. B. M. French, City Engr.

Ohio, Shaker Heights—(Cleveland post office)—Village receiving bids Aug. 1 for improving portion Eaton Rd. C. A. Palmer, Clk.

Ohio, South Zanesville—(Official)—Village receiving bids Aug. 3 for improving portion Main St. O. L. Boal, Clk

Ohio, Tiffin—(Official)—City receiving bids Aug. 1 for improving portion St. Clair St., brick. L. O. Runkle, City Engr. Noted June 29.

Ohio, Warren—County receiving bids Aug. 14 for $158,000 road bonds. W. L. Hoffman, Warren, County Clk.

Ohio, Warren—Council passed resolution to pave portion Howland Ave. H. McKibben, City Engr.

Ohio, Woodsfield—Monroe County to sell $18,000 road bonds Aug. 7. T. O. Dougherty, Woodsfield, Audr. F. Ward, Engr.

Ind., Gary—Bd. Pub. Wks. plans to extend 15th Ave. W. J. Fulton, City Engr.

Ill., East St. Louis—Council passed ordinance to pave 23d St., concrete. E. F. Harper, City Engr.

Ill., Galesburg—City making plans for paving North Seminary St., about $23,152. F. M. Connelly, Engr.

Ill., Peoria—Bd. Local Improvements plans to pave Pennsylvania and Western Ave. L. D. Jeffries, City Engr.

Ill., Peoria—Trus. Peoria Heights plan to pave portion Galena Rd., concrete, about $22,000. L. D. Jeffries, City Engr.

Ill., Port Byron—Village plans macadam paving. W. Treichler, Court House, Rock Island, Engr.

Wis., Stoughton—City receiving bids Aug. 7 for paving portion Main St., brick or water-bound macadam, curbing and guttering portion Main, Monroe, South and Hamilton St. J. F. Icke, Washington Bldg., Madison, Engr. Noted Mar. 2.

Wis., Wausau—Bd. Pub. Wks. receiving bids Aug. 10 paving Scott St. B. C. Gowan, City Engr.

Wis., West Allis—Act. Bd. Pub. Wks. receiving bids Aug. 14 for improving portion Beloit Rd. E. G. Orbert, City Engr.

STREETS AND ROADS—Continued

Iowa, Perry—(Official)—City receiving bids Aug. 7 for 11,328 lin.ft. curb and gutter and 2,620 lin.ft. gutter. C. E. Wilson, City Engr.

Minn., Minneapolis—Park Bd. making plans for paving South Bay Blvd. J. A. Ridgeway, Secy.

Kan., El Dorado—City passed resolution to pave portion Emporia St. B. F. Alleback, City Clk.

Kan., Hutchinson—City passed resolution to pave portion Sherman Ave., W., and East 13th St. E. Metz, City Clk. G. L. McLane, City Engr.

Kan., Olathe—Johnson County receiving bids Aug. 12 for road work. W. J. Moore, Olathe, County Clk.

Kan., Peabody—City soon lets contract paving portion Main St. G. L. McLain, Engr.

Kan., Pittsburg—City soon lets contract 20,000 yd. paving. L. E. Curfman, City Engr.

S. D., Huron—City plans paving. S. S. Oviatt, Clk.

S. D., Madison—City plans to curb 8 blocks. W. Ray, Clk.

S. D., Mitchell—City plans to pave East 32d and East 34th St., 11,898 sq.yd. S. H. Smith, City Engr.

Mont., Bozeman—Council voted to pave North Black, North Church and South Ave., also to build curbs and sidewalks on South Grand Ave. C C. Widener, City Engr.

Mont., Helena—City plans paving Helena Ave., about $67,000. J. D. McLeod, City Engr.

Mont., Walkerville—City plans paving, curbing and sidewalks on various streets.

Mo., Columbia—City making plans paving West Broadway and Hickman Ave. P. Price, City Engr.

Mo., Fulton—City receiving bids Aug. 10 for paving and curbing. F. E. Baker, City Engr.

Mo., Hayti—(Official)—City receiving bids Aug. 7 for paving 4 streets. A. V. Eachus, City Clk. Blair Boyle, City Engr. Noted Apr. 27.

Mo., Jefferson City—City plans to pave Clay and West Main St. P. Harding, City Engr.

Mo., Joplin—(Official)—City receiving bids Aug. 1 paving portion McKinley Ave. J. J. McAfee, City Engr. Noted July 13.

Mo., Joplin—City lets contract paving portion Wall St., rock asphalt, about Aug. 1, about $13,188. J. J. McAfee, City Engr. Noted July 6.

Mo., Liberty—City passed resolution to pave Morse Ave. E. K. Carter, City Engr.

Mo., Monette—Council passed resolution to improve portion Central Ave. W. J. Fleming, Mayor.

Mo., St. Joseph—Bd. Pub. Wks. soon receives bids for paving portion 14th St. C. P. Hoff, City Engr.

Mo., St. Joseph—(Official)—Buchanan County receiving bids Aug. 5 for grading 13 mi. road. R. C. Cargill, St. Joseph, Surv. Noted July 6.

Mo., Salem—Dent County voted $160,000 road bonds. J. H. McDonald, Salem, Clk. Noted July 13.

Mo., Sedalis—(Official)—City receiving bids Aug. 7 for paving portion 4th St., brick. F. T. Leaming, City Engr. Noted July 13.

Mo., Springfield—City to pave portion Orchard St. A. D. Chrisman, City Engr.

Ark., Arkadelphia—City plans to improve streets. H. Allison, Mayor.

Ark., Glenwood—Pike County plans to pave 15 mi. road from Glenwood to Kirby, about $61,200. Address County Clk., Murfreesboro.

Tex., Clarksville—City receiving bids Aug. 25 for paving Walnut, Main, Broadway and College Ave., concrete, about $90,000. J. R. Johnson, Engr.

Tex., Clarksville—City plans to pave number of streets in Dists. Nos. 2, 3 and 4, about $90,000. J. R. Welsh, Clk.

Tex., Dallas—City plans to pave portion Lamar St., about $80,000. H. Moseley, City Engr.

Tex., Dallas—Property Owners plan to repave portion Jefferson Ave.

Tex., Frankston—County voted $100,000 road bonds. Address County Clk., Palestine. Noted June 1.

Tex., Greenville—Hunt County defeated $1,400,000 road bonds. Noted July 13.

Tex., San Diego—Citizens voted $100,000 road bonds.

Tex., Sherman—City to curb, gutter and pave King St., about $35,000 to $50,000. O. J. Ellingson, City Engr. Noted July 13.

Tex., Stephenville—City plans to improve portion Tarleton Ave. and Graham St.

Tex., Van Alstyne—City plans to improve various streets.

Tex., Wichita Falls—City plans to pave portion 8th and Brook St. and Ohio Ave., concrete, about $40,000. L. C. Hinckley, City Engr.

Okla., Ardmore—Carter County plans election to vote on $100,000 road bonds. Address County Clk., Ardmore.

Colo., Glenwood Springs—Garfield County receiving bids Aug. 10, 2,350-ft. highway. C. L. Hubbard, Glenwood Springs, Clk.

N. M., Albuquerque—City receiving bids Aug. 7 for paving. T. Hughes, Clk. J. E. Hutchinson, City Engr.

N. M., Roswell—City plans paving Kentucky St. H. V. Abercrombie, City Engr.

N. M., Socorro—State Highway Comn. to spend $4,000 for Socorro-Mohollen Rd., Blue Canyon. J. A. French, Santa Fe, State Highway Engr.

Idaho, Challis—Custer County petitioned to call election to vote on $100,000 highway bonds. Address County Clk., Challis.

Wash., Burlington—Town receiving bids Aug. 7 for sidewalks portion Fairhaven Ave. I. A. Merchant, Clk.

Wash., Kent—Council passed ordinance to surface Meeker St., concrete. B. Bonldron, City Engr.

Wash., Marysville—Council plans concrete walks on Morgan and 7th St.

Wash., Pomeroy—City to soon let contract for improving Main St., about $14,000.

Wash., Pullman—City making plans for paving North State St. About $16,000. A. Myers, City Engr.

Wash., Republic—Ferry County receiving bids Aug. 8 for Permanent Highway No. 1-B. W. T. O'Connell, Republic, Clk.

Wash., Seattle—City to soon let contract for paving Alkai Ave., concrete, about $31,440. A. H. Dimock, City Engr.

Wash., Sumner—City plans paving. W. P. Wood, City Engr.

Wash., Toppenish—Council voted to build sidewalks on Toppenish Ave., about $13,000. C. A. Wyckoff, City Clk.

Wash., Walla Walla—City soon receives bids for paving portion Roosevelt, Howard and Pleasant St. W. R. Rehorn, City Engr.

Wash., Waterville—County receiving bids Aug. 10 for improving 4½ mi. Permanent Highway No. 41. R. F. Foster, Waterville, County Engr.

Ore., Astoria—City making plans paving portion Commercial St. G. T. McCrean, City Engr.

Ore., McMinnville—Council passed ordinance to pave all streets in Dist. No. 13.

Ore., Portland—City made plans for paving East 31st St. P. Dater, City Engr.

Calif., Berkeley—City making plans paving portion University Ave. J. J. Jessup, City Engr.

Calif., Los Angeles—City making plans for improving 2 mi. West 1st St. H. Hamlin, City Engr.

Calif., Placerville—City sold $30,000 bonds for paving route State Highway. A. Givan, Sacramento, Engr. Noted June 15.

Calif., San Bernardino—County plans 3 mi. cutoff, about $5,000. Address County Clk., San Bernardino.

Que., St. Hyacinthe—City plans to pave portions Rosalie Du Palais Dessaulles St., asphalt macadam, about $40,000.

Ont., Brantford—City plans to spend $21,000 for paving Erie Ave.

Ont., Lanark—City making plans for paving, about $100,000. W. Watters, Rd. Comr.

Ont., Ottawa—City plans to pave portion Merton St. About $10,000.

Ont., Ottawa—City soon receives bids paving and guttering portion Cooper St., asphalt. A. F. Macullum, Engr.

Ont., Ottawa—Bd. Control plans to pave Hamilton and Daily Ave. A. M. McCallum, Engr.

Ont., Walkerville—Council soon receives bids paving 3 streets. A. Miers, Clk.

Bids In and Contracts Awarded

Maine, Augusta—State Highway Comn. received bids for gravel road in Lewiston from Forgione & Romano, Portland, $14,196; James McGregor, Rumford, $13,262.

Mass., Dartmouth—State Highway Comn. let contract section highway to ACUSHNET CONSTRUCTION CO., New Bedford, $13,880. Noted July 20.

Mass., Northbridge—State Highway Comn., Boston, let contract section State Highway, to SOUTHBRIDGE ENGINEERING AND SUPPLY CO., Southbridge, about $23,415. Noted July 20.

R. I., Warren—School Comn. let contract curbing and walks Main St. School to E. J. DUBE.

R. I., Warren—State Bureau Rds. received low bid paving from Connecticut & Rhode Island Co., Inc., Meriden, Conn., $12,312.

Conn., Bristol—City let contract paving portion Main St. to BRABARA & D'AURIOLIO, Waterbury, $3.85 per sq.yd.

N. Y., Albany—(Official)—State Highway Comn. let contracts constructing and improving highways in various counties as follows: Road No. 1372, Osborn Center-Schenectady County line, Albany, 3.23 mi.: S. B. VAN WAGONEN, INC., Rondout, $48,938. Road No. 1404, Dormansville-South Westerloo, Albany County, 5.62 mi.: LANE CONSTRUCTION CORPORATION, Meriden, $65,594. Road No. 5609, Port Byron, Weedsport, Cayuga County, 3.89 mi.: CHARLES O. McCOMB, Syracuse, $49,378. Road No. 1395, East Guilford-Rockdale, Chenango County, 2.91 mi.: E. S. ARBOGAST, Stroudsburg, Penn., $30,065. Road No. 1375, Johnstown City, East Ave., Fulton County, 1.10 mi.: BRADY-OLTARSH CONSTRUCTION CO., New York, $13,977. Road No. 1402, Alabama-Batavia, Part 2, Genesee County, 7.60 mi.: COLD SPRING CONSTRUCTION CO., Buffalo, $75,837. Road No. 1361, Oneida Lake-South Bay and Oneida-South Bay, Part 2, Madison County, 5.65 mi.: JOHN R. BURCHILL, Syracuse, $54,922. Road No. 1391, Sweden-Walker, Monroe County, 7.93 mi.: WILLIAM H. MADDEN, Rochester, $66,373. Road No. 1343, Westbury-Hicksville, Nassau County, 3.09 mi.: RUSH CONSTRUCTION CO., New York, $34,192. Road No. 5408, Fulton City-East First St., Oswego County, 0.36 mi.: PATHFINDER CONSTRUCTION CO., Fulton, $17,663. Road No. 1387, Canton Village, West Main St., St. Lawrence County, 0.44 mi.: ARTHUR F. McCONVILLE, Ogdensburg, $5,547. Road No. 5611, Coshocton-Naples, Part 1, Steuben County, 5.76 mi.: STEUBEN CONSTRUCTION CO., Hornell, $53,242. Road No. 1407, Newark-Sodus, Part 1, Wayne County, 3.97 mi.: DANA W. ROBBINS, INC., New York, $31,350. Road No. 1058, Wolcott-Savannah, Part 3, Wayne County, 2.25 mi.: STEUBEN CONSTRUCTION CO., Hornell, $14,960. Repair Contract 969, Erie County, 2.48 mi.: FRANK L. COHEN, Buffalo, $26,595. Repair Contract 987, Monroe County, 0.79 mi.: WHITMORE-RAUBER-VICINIUS, INC., Rochester, $25,897. Repair Contract 988, Westchester County, SAMUEL BESKIN, Beacon, $55,059. Road No. 1405, Thompsons Lake-Van Auken Corner, Albany County, 2.93 mi.: C. S. MATHUSA, Albany, $35,875. Road No. 1380, Jamestown-Ashville, Chautauqua County, 5.65 mi.: FULTON ENGINEERING CO., INC., Walton, $123,126. Road No. 1156, Oxford Village, Chenango County, 0.82 mi.: A. B. HAIGHT, Oxford, $15,414. Road No. 1403, Alabama-Batavia, Part 1, Genesee County, 7.94 mi.: MICHAEL F. RIPTON, Rochester, $90,091. Road No. 1354, Syracuse-Otsico, Part 1, Oswego County, 5.55 mi.: FRANK MALONE, Syracuse, $66,748. Road No. 1413, Hastings-Parish, Onondaga County, 2.04 mi.: EDWIN STYRING, Theresa, $23,165. Road No. 1409, Richfield Springs-Winfield, Parts 1 and 2, Otsego County, 7.87 mi.: J. L. RICHMOND, Hinkley, $124,673. Road No. 1388, DePeyster-Ogdensburg, St. Lawrence County, 11.16 mi.: SPELLMAN-OLIVER CONSTRUCTION CO., Chautauqua, $99,239. Road No. 1373, Hurley-Kingston, Ulster County, 2.73 mi.: PHILIP KRAMER, Paterson, $39,651. Road No. 1060, Lyons-Sodus Point, Parts 2 and 3, Wayne County, 6.41 mi.: THOMAS GRADY, Rochester, $56,987. Repair Contract No. 991, Cattaraugus County, 8.83 mi.: P. H. MURRAY, Rochester, $29,657. Repair Contract No. 989, Erie County, 3.55 mi.: THOMAS J. MURRAY, Leroy, $23,559. Noted July 20.

N. Y., Herkimer—City let contract paving to WARREN BROS. CO., Boston, about $18,000.

N. Y., Middletown—City let contract paving West Main St. to JENNISON-WRIGHT CO., 313-15 Huron St., Toledo, $16,000.

N. Y., New York—(Borough of Bronx)—(Official)—Low bidder paving portion Jerome Ave., Asphalt Construction Co., Madison Ave. and 137th St., $168,153. Noted July 13.

N. Y., New York—(Borough of Brooklyn)—(Official)—Low bidders paving various streets were: Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., West St., $20,377, 6th Ave., $8,406, 55th St., $6,011, 68th St., $11,542, 76th St., $5,567; Newman & Carey, Clay St., $5,976, Park Ave., $42,983, Prospect Ave,. $20,018, 18th, $12,829; M F. Scott, Navy St., $5,096; Borough Asphalt Paving Co., Cropsey Ave., $23,954; Uvalde Asphalt Paving Co., Ave. O, $5,529. Robinson St., $5,704. Noted July 13.

N. Y., New York—(Borough of Manhattan)—(Official)—Borough Pres. received low bids paving: Sicilian Asphalt Paving Co., 41 Park Row, 25th St., $7,958, 40th St., $18,207, 63d St., $8,933; W J. Fitzgerald, 547 West 45th St., Beekman St., $27,080, Grand St., $41,467, 22d St., $22,667; Franklin Contracting Co., 52 Vanderbilt Ave., Delancey St., $32,450; T. Lapadula, West 134th St., $10,941. Noted July 13.

N. Y., New York—(Borough of Queens)—(Official)—Low bid paving portion Meadow St., Astoria Contracting Co., $8,834; 88th St., H. J. Mullen, $8,257. Noted July 13.

N. Y., New York—(Borough of Richmond)—(Official)—Uvalde Asphalt Paving Co., 1 Broadway, low bidder paving South wing Richmond Terrace, $4,972. Noted July 13.

N. Y., New York—(Borough of Richmond)—(Official)—J. E. Donovan, 2205 Richmond Terrace, low bidder paving portion Arrietta Ave., $20,591. Noted July 20.

N. Y., Rome—City let contract paving Ridge St. to WARREN BROS. CO., 142 Berkeley St., Boston, $5,000. Noted July 6.

N. Y., Yonkers—Bd. Contract and Supply let contract paving North Broadway to WARREN BROS. PAVING CO., 50 Church St., New York, $106,000.

N. J., Bayonne—City received low bid paving 29th St. from Uvalde Asphalt Paving Co., 1 Broadway, New York, $24,600. Noted July 13.

N. J., Bayonne—City received low bids paving from Uvalde Asphalt Paving Co., 1 Broadway, New York, Ave. C, $11,166, 8th St., $13,662, 5th St., $19,927; C. T. Kavanagh, Inc., 22d St., $61,906. Noted July 6.

STREETS AND ROADS—Continued

N. J., Belleville—City let contract improving Linden Ave. to P. & P. JANNARONE, Belleville.

N. J., Fair Haven—City let contract sidewalks and curbing to T. MANSON & SON, Monmouth St., Redbank, $17,000. Noted June 15.

N. J., Montclair—Town let contract paving Upper Mountain Ave. to CONTINENTAL PUBLIC WORKS CO., 2 Rector St., New York, $82,916. Noted June 22.

N. J., Newark—City received low bid improving portion Frankfort St. from R. Doreity, Ridge St., Newark, $4,079. Noted July 13.

N. J., Oaklyn—City let contract paving to J. H. KELLY, 425 Market St., Camden, about $25,000. Noted July 6.

N. J., Trenton—Mercer County let contract resurfacing Lawrenceville-Princeton Rd. and Nottingham Way to NEWTON PAVING CO., Trenton, $109,070. Noted June 29.

N. J., Trenton—Mercer County let contract resurfacing portion Trenton-Hopewell Rd. to L. W. KLOCKNER, Mersersville, $48,362. Noted June 8.

N. J., Trenton—City let contract paving Nassau St. to HARLTON CONSTRUCTION CO., 2 Rector St., New York, $40,000.

N. J., Union Hill—City let contract paving 8 streets to CLINTON CONSTRUCTION CO., 306 Charles St., West Hoboken, about $50,000. Noted June 1.

N. J., Westfield—(Official)—Town let contract improving portions Stanley, Tremont and North Ave. to WELDON CONTRACTING CO., Rahway, $7,540; South and Mountain Ave., H. B. SPROUL CONSTRUCTION CO., $11,338. Noted July 6.

N. J., Woodbury—City let contract paving Franklin and Center St. to SUTTON & CORSON, Ocean City, $1.94 per sq.yd.

Penn., Beaver Falls—City received low bid paving 7th Ave. from J. G. McGuire & Co., New Brighton, $27,800.

Penn., Bedford—County let contract improving portion road in Woodbury Township to C. I. DETWILER & BRO., New Enterprise, $11,885.

Penn., Carnegie—(Official)—City let contract repaving 1st St. to S. GAMBLE CO., Main St., Carnegie, $56,782.

Penn., Corry—City let contract paving Pleasant St. to KEYSTONE CONSTRUCTION CO., Meadville, $11,075.

Penn., Dormont—City let contract curbing and sidewalks portion Liberty Ave. to H. McMULLEN, Banksville.

Penn., Erie—City received low bid grading French St. from L. V. Metz, Erie, 28c. per cu.yd.

Penn., Glenlyon—City let contract paving and curbing Spring St. and Alden Rd. to C. REES, 317 East Noble St., Nanticoke.

Penn., Harrisburg—City received low bid paving Swatara St. from Central Construction and Supply Co., $13,306. M. B. Cowden, City Engr. Noted Apr. 6.

Penn., Harrisburg—State Highway Dept. received low bids highways in various counties: Chester County, Route 131, Sec. S, Souder Construction Co., Lancaster, $109,631, D. E. O'Connell & Sons, Avondale, $110,999, P. J. Snyder & Co., Philadelphia, $113,076; Allegheny County, Route 108, Sec. 1, Monongahela Construction Co., Inc., Pittsburgh, $71,428, R. B. Taylor, Bellefonte, $75,959, Ridge Bros. Co., Pittsburgh, $76,249; Washington County, Route 108, Sec. 2, S. Gamble Co., $91,811, Parton Construction Co., Brownsville, $92,529, R. H. Cunningham & Sons Co., $102,748; Cambria County, Route 52, Sec. 4, J. L. Elder, Ebensburg, $146,542, S. Gamble Co., $182,278; Forest County, State-Aid Application 230, South Shore Construction Co., Erie, $11,527, B. Steel Hollidaysburg, $12,563, W. C. Simpson, Punxsutawney, $12,484; Delaware County, State Aid Application 407, J. E. Kelley, Darby, $25,101, C. T. T. Eastburn Co., Yardley, $25,348. Field, Barker & Underwood, Philadelphia, $26,047. Noted July 6.

Penn., McKeesport—City let contract improving Baker St. to T. H. CROSIER, Belgian Blk.

Penn., Millersburg—City let contract paving North and South Market and East Union St. to G. W. ENSIGN, INC., First National Bank Bldg., Harrisburg, $16,560.

Penn., Mt. Penn.—City let contract paving to HASSAM PAVING CO., Worcester, Mass.

Penn., Nanticoke—City let contract paving portion Prospect St. to J. BANK CONSTRUCTION CO., Lennett Bldg., Wilkes-Barre, $9,000. Noted Mar. 23.

Penn., Robesonia—City let contract paving to AMBLER-DAVIS & CO.

Penn., Sugar Notch—City let contract improving portion Oak St. to M. J. MALLOY, Sugar Notch.

Penn., Wanamie—City let contract paving and curbing Main Rd. to C. REES, 317 East Noble St., Nanticoke.

Penn., Washington—Washington County let contract road work to L. F. EDWARDS, Greensburg, $24,759.

Penn., West Chester—State let contract road work to NEFF, HORN & CO., Slatington, $60,000.

Del., Wilmington—County received low bid road from B. F. Wickersham, $6,500.

Va., Richmond—City let contract improving Meadow and Ashland St. to J. J. CURLEY.

W. Va., Clarksburg—County let contract 17 mi. road to WINSTON & CO., Richmond.

W. Va., West Union—Doddridge County let contract 7 mi. road to SISLER & MORSE, $13,500.

N. C., Asheville—City let contract paving to R. C. STEVENS.

Ga., Tifton—City let contract paving to GULF PAVING CO. ,Chattanoga, Tenn., about $45,000 available.

Fla., Arcadia—De Sota County let contract 25 mi. road to W. P. KENNEDY CONSTRUCTION CO., Tampa, $100,000; 35 mi. to EDWARDS CONSTRUCTION CO., Tampa, $150,000. Noted June 22.

Fla., Miami—City let contract paving to J. F. MORGAN & CO., Attalla, Ala., $121,031. Noted July 6.

Ala., Dadeville—Tallapoosa County let contract improving Rds. Nos. 1, 2, 3 and 4 to W. F. ALLEN, Montgomery; 5, 6 and 7, NIXON-SMITH CONSTRUCTION CO., Thomaston; concrete contract to CONCRETE STEEL CONSTRUCTION CO., Birmingham; steel bridges to VIRGINIA BRIDGE CO., Birmingham. About $90,000. Noted June 22.

La., Houma—Terrbonne Parish let contract 11.7 mi. road to J. N. GEORGE & SONS, Baton Rouge, $51,850. Noted May 18.

La., Monroe—City let contract curbing, paving and guttering to S. A. GANO, Jackson, Miss.

La., Napoleon—Parish let contract gravel to ALEXANDER GRAVEL CO.

La., New Orleans—State Highway Comn. received low bids Sect. H, Hammond-Amite Highway and section Amite-Covington Highway from P. Miller. Brussard, $31,300. H. J. Bonnabel, Ludedale, Miss., $32,000. W. J. Comerford, New Orleans, $38,385. Noted July 6.

Tenn., Erwin—City let contract paving to MURRAY CONSTRUCTION CO., Knoxville, about $12,000. Noted July 6.

Tenn., Murfreesboro—City let contract paving to WEST CONSTRUCTION CO., Chattanooga, about $50,000. Noted June 22.

Tenn., Rogersville—(Official)—Hawkins County let contract road work to NEWELL CONSTRUCTION CO., Birmingham, Ala. Noted June 22.

Ky., Hopkinsville—(Official)—Christian County let contract about 85 mi. road work to MONTGOMERY-PERKINS & CO., San Antonio, $209,277. Noted July 13.

Ky., Middlesboro—City let contract paving portion Cumberland Ave. to G. P. SHARP.

Ky., Mt. Sterling—City let contract paving, curbing and guttering to CAREY-REED CO., Lexington.

Ky., Newport—Campbell County Fiscal Court rejected bids for Old State Rd.

Ky., Somerset—Pulaski County let contract 50 mi. macadam road to CONLY CONSTRUCTION CO., Somerset.

Ky., Versailles—(Official)—City let contract paving and curbing to H. BUCKEL CO., Louisville. Noted July 6.

Ky., Wickliffe—(Official)—Ballard County let contracts road work: WEST KENTUCKY CONSTRUCTION CO., Wickliffe, 10 mi., L. E. CARTER, Lovelaceville, 4 mi., CRESAO BROS., Mayfield, 20 mi., R. L. FRAZER, La Center, 3 mi., G. SCAMHORN, Rickport, Ind., 10½ mi. Noted July 13.

Ohio, Akron—City received low bid paving Weber, Charlotte and Aqueduct St. from E. McShaffery & Son, $17,972.

Ohio, Canton—City let contract improving Arnold Ave. and Gamer St. to W. D. KELLY, $11,849.

Ohio, Cincinnati—City let contract paving Miami St. to E. O. MURRAY.

Ohio, Cleveland—City let contract paving portion West 36th St. to ROEHL BROS., West 25th and Lorain Ave., $7,164.

Ohio, Columbus — (Official) — State Highway Comn. received bids July 20 for constructing and repairing roads in various counties as follows: Champaign County, Sect. "P," Urbana-West Jefferson Rd., 1.25 mi.: McCann & McCann, Columbus, $18,980; Ohio Marble Co., Piqua, $19,730; McArthur & Fox, Belle Center, $19,623. Clermont County, Sect. "H," Cincinnati-West Union Rd., 1.05 mi.: Ellsworth Meeker, Bethel, $9,990; H. C. Logue, Amelia, $10,692. Erie County, Sect. "P," Milan-Elyria Rd., 1.35 mi.: Elyria Construction Co., Elyria, $15,206. Fayette County, Sect. "I," Springfield-Washington Rd., 2 mi.: Seiple & Wolfe, Youngstown, $15,815; J. R. Mustard, Ada, $16,156. Gallia County, Sect. "E," Jackson-Gallipolis Rd., 1.04 mi.: W. H. Martt, Gallipolis, $9,500. Geauga County, Sect. "A," Painsville-Warren Rd., 0.91 mi.: Farrell Engineering and Construction Co., Cleveland, $10,850. Geauga County, Sect. "D," Chardon-Madison Rd., 1.70 mi.: Farrell Engineering and Construction Co., Cleveland, $20,250. Guernsey County, Sect. "L," Cambridge-Caldwell Rd., 1.25 mi.: J. W. Butler, Cincinnati, $9,689; T. J. McKim, Marietta, $10,900. Hancock County, Sect. "A," Findlay-Kenton Rd., 3 mi.; Latshaw & Stinchomb, Fostoria, $26,383; J. W. Carey, Ada, $27,000; McCann & McCann, Columbus, $27,880. Lucas County, Sect. "I," Toledo-Napoleon Rd., 2 mi.: C. W. Ryan, Maumee, $18,950; Gray Bros., Bowling Green, $19,900. Ottawa County, Sect. "C," Bono-Port Clinton Rd,. 4.01 mi.: Muldon & Bergen, Genoa, $27,220; Brock Bros., Luckey, $27,352. Pickaway County, Sect. "K," Lancaster—Circleville Northern Rd., 1 mi.: Wilson & Hampshire, Circleville, (A) $11,122; (B) $9,100. Preble County, Sect. "F-2," Eaton-Richmond Rd., 1 mi.: H. C. Foster & Son, Richmond, $7,684; H. W. Curry & Co., Eaton, $7,825. Trunbull County, Sect. "E," Warren-Meadville Rd., 7.44 mi.: Seiple & Wolfe, Youngstown, $57,312; McDermitt & Hannan, Niles, $58,276. Tuscarawas County, Sect. "A," Canton-Canal Dover Rd., 2.97 mi.: J. W. Butler, Cincinnati, $14,299. Van Wert County, Sect. "G," Van Wert-Spencerville Rd., 2 mi.: A. J. Walther, Wapakoneta, $14,438; J. W. Carey Co., Ada, $14,931; Mueller Construction Co., Columbus, $14,969. Van Wert County, Sect. "B," Van Wert-Ft. Wayne Rd., 3 mi.: Sol. Putman, Van Wert, $23,890; George Baitman, Van Wert, $24,500. Vinton County, Sect. "G," McArthur-Athens Rd., 2 mi.: W. J. Keuhler, McArthur, $17,800. For maintenance and repair: Cuyahoga County, Sect. "B," Rocky River-Berea Rd., 2,500 ft.: Long & Bohen, Cleveland, $12,183. Geagua County, Sect. "A," Cleveland-Kent Rd., 0.94 mi.: J. A. Bock, Chardon, $8,731. Lorain County, Sect. "O," Obedlin-Norwalk Rd., 3.15 mi.: Elyria Construction Co., Elyria, $24,869; Highway Construction Co., Elyria, $25,318. Stark County, Sect. "A," Canton-Canal Dover Rd., 1.49 mi.: W. D. Kelly Co., Canton, $10,608; Seiple & Wolfe, Youngstown, $10,823; R. C. Rousch, Canton, $11,882.

Ohio, Columbus—State Highway Comn. received bids July 21 for constructing and repairing roads in various counties as follows: Ashland County, Sect. "A," Ashland-Medina Rd., 1.43 mi., E. F. Downs, Toledo, $23,037; H. J. Neipfoot, Elyria, $23,262. Carroll County, Sect. "A," Minerva-Sandyville Rd., 1.33 mi.: Ward, Miller & McCoy, Wheeling, W. Va., $23,197; Turnbull Bros., Canton, $23,212. Clermont County, Sect. "L," Milford-Hillsboro Rd., 1.04 mi.: J. K. Spencer, Orgonia, $8,667; William Meek, Batavia, $8,749. Columbiana County, Sect. "D," Lisbon-Canton Rd., 6.02 mi.: Seiple & Wolfe, Youngstown, $67,000; H. W. Curry & Co., Eaton, $67,500. Erie County, Sect. "A," Savannah-Vermillion Rd., 1.02 mi.: H. J. Neipfoot, Elyria, $16,381; Central Construction Co., Fremont, $16,990. Gallia County, Sect. "D," Gallipolis-Ironton Rd., 1.41 mi.: W. H. Martt, Gallipolis, $12,756. Gallia County, Sect. "G," Ohio River Rd., 0.78 mi.: W. H. Martt, Gallipolis, $6,089. Geauga County, Sect. "I," Burton-Bloomfield Rd., 3.12 mi.: Ward & Nims, East Orwell, $32,000; Kennedy Warner, Medina, $32,275. Hamilton County, Carthage-Hamilton Rd.: Runk & Runk, Cincinnati, $36,989; I. E. Smith, Richmond, Ind., $36,990. Hancock County, Sect. "D," Findlay-Bowling Green Rd., 4.15 mi.: Kennedy Warner Co., Medina, $42,710; Johnson Construction Co., Chicago, $44,709; Graham & Kinnear, Columbus, asphalt, $41,551, $34,927. Lake County, Sect. "A," Euclid-Chardon Rd,. 1.51 mi.: E. A. Freshwater & Son, Chester, W. Va., (A) $20,990, (B) $23,190, Farell Engineering Co., Cleveland, (A) $21,200, (B) $23,200. Medina County, Sect. "A," Akron-Medina Rd., 2.51 mi.: H. J. Neipfoot, Elyria, $28,117; George S. Miller, Medina, $28,200; Meigs County, Sect. "M," Middleport-Bradbury Rd.: Maumanx & Ross, Pomeroy, (A) $20,587, (B) $22,303; George Bowen, (A) $21,496, (B) $23,300, 1.02 mi.: Meigs County, Sect. "K," of the Pomeroy-Athens Rd., 0.69 mi.: George Bowen, Pomeroy, $13,400. Mercer County, Sect. "A," Celina-Wabash Rd., 0.64 mi.; Burnett & Christian, Rockford, $9,234; J. W. Karsch, Celina, $9,550. Perry County, Sect. "J," Lancaster-New Lexington Rd., 2.47 mi., Swank & McIntire, New Lexington, $38,261; Mings & Staten, Eaton, $38,627. Preble County, Sect. "A," Eaton-Greenville Rd., 1.13 mi.: H. W. Curry Co., Eaton, $9,950; Hamilton & Bunger, Eldorado, $9,995. Sandusky County, Sect. "K" of the Fremont-Bellevue Rd., 1.38 mi.: Modern Construction Co., Fremont, $37,700; Chris Stoltz, Bellevue, $38,848; Trumbull County, Sect. "A," Painsville-Warren Rd., 2.09 mi.: Oatley & Ensign, Cortland, $34,049; J. C. Devine, Alliance, $34,390. Trumbull County, Sect. "D," Warren-Meadville Rd., 6.84 mi.: Smith Construction Co., Youngstown, $65,101. Tuscarawas County, Sect. "K," West Lafayette-New Philadelphia Rd., 2 mi.: McIllfresh Danford & Glover, Caldwell, $36,805; Springer & Rogers, New Philadelphia, $36,897. Van Wert County, Sect. "A," Van Wert-Decatur Rd., 2.15 mi.: Floyd Putman, Van Wert, $15,769.

Ohio, Defiance—(Official)—County let contract paving Glenburg Rd. to SPANGLER & ERMAN, Evansport, $19,512.

Ohio, Eaton—Council let contract paving Barron St. to STORDBECK BROS., Middletown. Noted May 4.

Ohio, Jefferson—County let contract paving portion Walnut St. and Fellows Ave. to ANDREWS ASPHALT PAVING CO., Hamilton. Noted June 15.

Ohio, Kenton—City let contract paving Main and Shadely St. to BREWER, TOMLINSON & BREWER, Chillicothe, about $27,000.

Ohio, Lancaster—City let contract improving West Fair Ave. to HARPER & STEWART, $5,046.

STREETS AND ROADS—Continued

Ohio, Middletown—City let contract paving Park Pl., Sutphen, Harrison, Monrie and McKinley Ave. to BIGLER BROS. W. C. Morrison, City Engr. Noted Mar. 30.

Ohio, Mt. Vernon—City let contract paving portions East and West Burgess, Division, McKenzie, Park, Ridgely, Sugar and Lamartine St. to A. A. GRAHAM, Mt. Vernon. Noted July 6.

Ohio, Painesville—County let contract for Painesville and Fairmount Rd. to THRUSHWATER & SONS, Chester, and WILLIAMS & LITTLE for section between Painesville and Perry.

Ohio, Portsmouth—City let contract improving portion Linden Ave. to S. MONROE & SON. Noted Feb. 17.

Ohio, Reading—City received low bid curbing, gutters and sidewalks from C. Staab, 3d St., $6,650.

Ohio, Smithville—(Official)—Village let contract paving Summit and Milton St. to SEIPLE & WOLF, Youngstown, $10,090. Noted June 29.

Ohio, Toledo—City let contract paving Broadway and Waite Ave. to A. G. TRAPPER, Peru, Ind., $38,079. Noted July 13.

Ohio, Urbana—(Official)—City let contract paving East Court St. to E. D. MURRAY, Urbana, $13,939.

Ohio, Worthington—City let contract improving Hartford St. to C. H. FRANK, East Deshler Ave., Columbus.

Ind., Columbus—Bartholomew County let contract road to F. H. KENT CONSTRUCTION CO., Shelbyville, $79,801. Noted June 29.

Ind., Evansville—(Official)—Vanderburgh County let contract rock road in Scott Township to J. FRIDY, R. R. 4, Evansville. Noted July 6.

Ind., Indianapolis—(Official)—Marion County let contract road in Center Township to C. M. KIRKPATRICK, Indianapolis, $27,000. Noted July 6.

Ind., Kokomo—County let contract Cullins Rd. to F. DAVENPORT, $5,216.

Ind., Michigan City—(Official)—City let contract paving Cook St. to HODSON-DAVID CONSTRUCTION CO., Michigan City.

Ind., Plainfield—Town received low bid 4,978 ft. road from G. T. Miller, Lebanon, $38,950 brick and $36,928 concrete.

Ind., South Bend—(Official)—St. Joseph County let contract road in Union Township to H. L. SHORT, La Crosse, $17,499. Noted June 29.

Ind., Sullivan—County let contract paving John Lund Rd. to J. S. ADAMS CONSTRUCTION CO., Sullivan, $24,600.

Ind., Terre Haute—(Official)—County let contract road work to M. C. FLOYD & SON, Farmersburg, about $5,000.

Ind., Wabash—City let contract paving to FEDERAL ASPHALT PAVING CO., Hamilton, Ohio, about $40,000.

Mich., Mt. Clemens—Macomb County let contract road work to MURPHY CONSTRUCTION CO., Port Huron, $25,000.

Mich., Reading—Hillsdale County let contract 4¾ mi. road Woodbridge Township to C. BISHOP, $21,550.

Ill., Berwyn—City let contract improving portion Wesley Ave. to R. F. CONWAY CO., Chicago, $18,962. Noted July 6.

Ill., Chicago—Cook County received low bids road in Bloom Township, Sect. 1, Route 29, from J. A. Sackley & Co., 133 West Washington St., $69,591, Pronger & Fletcher, Chicago, $74,070, C. Fiedstedt Co., Montrose Ave. and North Branch St., $74,713; Palos and Lamont Townships, Sect. 1, Route 20, Commonwealth Improvement Co., $50,645, J. A. McGarry & Co., 189 West Madison St., $49,817, Johnson Construction Co., 115 South Dearborn St., $52,410.

Ill., Eldorado—City let contract paving DUNLOP-DIPPLOD CONSTRUCTION CO., Edwardsville, about $40,000.

Ill., Monticello—(Official)—City let contract paving Buchanan St. to W. F. LODGE, Monticello, $17,000.

Ill., Morrison—City let contract paving Cherry St. to CENTRAL ENGINEERING CO., Davenport, $5,845.

Ill., Rock Island—City let contract paving East 17th St. to TRI-CITY CONSTRUCTION CO., $2.07 per sq.yd.

Ill., Springfield—(Official)—State Highway Dept. let contracts road work: Cass County, Sect. F, BEARDSTOWN CONCRETE CONSTRUCTION CO., Beardstown, $6,109; Cook County, Sect. L and M, PRONGER & FLETCHER, Blue Island, $57,400; Jefferson County, Sect. B, J. MANNEN, Mt. Vernon, $5,904; Jo Dabiess County, Sect. C and D, R. F. CONLON, Cuba City, Wis., $9,500; Kane County, Sect. H, ILLINOIS HYDRAULIC STONE AND CONSTRUCTION CO., Elgin, $30,723; Whiteside County, Sect. E, H. P. JOHNSON, Sterling, $12,650.

Ill., Urbana—City let contract repaving Race St. to STIPES & PILCHER, Champaign, $4,900.

Wis., De Pere—City let contract paving to WILLISTON CONSTRUCTION CO., Chicago, $1.41 per sq.yd. Noted July 6.

Wis., Richland Center—Richland County let contract 1 mi. concrete road to M. O. CARTER, Sextonville.

Wis., Superior—City let contract paving North 6th St. to RUSSELL CONSTRUCTION CO.

Wis., West Allis—(Official)—Bd. Pub. Wks. received bids paving portion 75th St. from Kroening Construction Co., $1.40 per sq.yd., and Deam Construction Co., $1.60. A. G. Orbet, City Engr. Noted July 6.

Iowa, Burlington—City let contract paving to G. PETERSON, Burlington, $1.18 per sq.yd.

Iowa, Emmetsburg—City let contract paving to ZITTERELL & SULLIVAN, Webster City, $150,800. Noted Mar. 2.

Iowa, McGregor—City let contract paving to J. LEE, Dubuque.

Iowa, Waterloo—City let contract wood block paving to BRYANT ASPHALT CO., $2.49 yd. R. L. Degon, Clk.

Kan., Hutchinson—City let contract paving 5th Ave., W., and North Main St. to STAMEY-MACKAY CONSTRUCTION CO., about $56,624. G. L. McLane, Engr. Noted June 8.

Kan., Hutchinson—Reno County let contract repair Medora Rd. to WHEELER & KELEHER. G. W. Lee, Hutchinson, County Clk.

Kan., Larned—(Official)—City let contract improving portion Kansas and Santa Fe St. to McCOY & TAYLOR. Noted July 13.

N. D., Grand Forks—City let contract paving portion Vernon and Belmont Ave. to GRAND FORKS CONCRETE CO., Grand Forks, about $40,000. Noted June 1.

Mont., Anaconda—City let contract sidewalks and sewers on Gold St. to P. OREN, $10,676; Excelsior St., $5,649.

Mo., Kansas City—City let contract paving Southern Blvd. and 18th St. to WILLISTON CONSTRUCTION CO., Chicago.

Mo., Kansas City—Bd. Pub. Wks. let contract paving and curbing portion 61st St. to E. F. WILCOX, Kansas City.

Mo., Liberty—City let contract paving portion Lightburne St. to EDGAR MAIN, $1.36 lin.ft. E. K. Carter, City Engr. Noted June 22.

Mo., St. Louis—City let contracts paving to BYERMANN CONSTRUCTION CO., 1216 South Grand Ave., $15,930, portion Duncan Ave.; SKRAINKA CONSTRUCTION CO., Security Bldg., $17,240, portion Arlington Ave. Noted July 6.

Mo., Sedalia—(Official)—City let contract sidewalks to A. McKISSICK, Sedalia.

Mo., Sedalia—(Official)—City let contract paving to J. T. MENEFEE, $1.13 per sq.yd.; sewers, 67c. per lin.ft. Noted July 13.

Tex., Center—City let contract street improvements to COOK, RICHARDSON & ARRINGTON, Crockett, $7,090.

Tex., Dallas—City let contract paving Center St., Oak Cliff, to WESTERN PAVING CO., Oklahoma, $25,000.

Tex., Houston—County let contract surfacing Lynchburg-Cedar Bayou Rd. to E. A. WAGNER, about $5,000. Noted June 8.

Tex., Paris—(Official)—City let contract paving South 15th St. to TEXAS BITULITHIC CO., Paris.

Tex., Sulphur Springs—Hopkins County let contract road work to COBB & GREGORY, Houston. Noted July 6.

Colo., Ouray—Ouray County let contract road work to R. H. BU PRAW and A. A. MOULE, Ouray, about $8,000.

N. M., Roswell—State plans to build 53 mi. road in Chaves County by convict labor. J. A. French, Santa Fe, State Engr.

Idaho, Moscow—City received low bid 8,100 yd. paving from STANDARD ASPHALT CO., Moscow, $11,826.

Utah, Logan—City let contract paving South Main St. to O. NELSON, Logan, $19,001.

Ariz., Phoenix—City let contract paving Portland St. and 5th Ave. to CALIFORNIA-ARIZONA CONSTRUCTION CO. Noted July 6.

Wash., Colville—County let contract Addy-Gifford Permanent Highway to R. B. DE CAMP, 1503 Maxwell St., Spokane, $8,468.

Wash., Colville—County let contract improving highway to NORTHWESTERN PAVING CO., East 529 Ermina Ave., Spokane, $9,880.

Wash., Ephrata—County let contract surfacing permanent Highway No. 6-A to MOHR CONSTRUCTION CO., Waterville, $11,975. Noted June 29.

Wash., Seattle—County let contract 2½ mi. highway between Richmond Beach and North Trunk Boule to N. W. BALL, Seattle, $10,688.

Wash., Seattle—County let contract paving Permanent Highway No. 2-B to CASCADE CONSTRUCTION CO., Pacific Blk., $21,169.

Ore., Coquille—City received low bid improving 24 blocks from Longston & Co., Coquille, $22,500.

Ore., North Bend—City received low bid paving waterfront highway from Washington St. to city limits from Anderson & Klockars, North Bend, $43,707.

Ore., Roseburg—County received only 1 bid Gardiner Rd., Hinsdale & Jewett, $14,154.

Ore., Roseburg—County let contract Camas Valley Rd. to E. E. WEEKLY, $6,285.

Calif., Anaheim—(Official)—City let contract paving Broadway LOS ANGELES PAVING CO., 2900 Santa Fe Ave., Los Angeles. Noted July 6.

Calif., Los Angeles—City let contract improving Alexandria Ave. to COAST CONSTRUCTION CO., $6,638.

Calif., Los Angeles—City let contract improving portion Brooklin Ave. to G. H. OSWALD. O. T. Johnson Bldg., $79,235.

Calif., Los Angeles—Los Angeles County let contract improving Sect. G, Mint-Canyon Rd., to P. A. and C. H. HOWARD, 2128 Sacramento St., $86,375. Noted July 20.

Calif., Los Angeles—City let contract improving 2.62 mi. highway on Vine Ave., Rd. Imprv. Dist. No. 55, to ROGERS BROS., $15,000. Noted July 20.

Calif., Manhattan—City let contract paving Marine St. to CALIFORNIA-ARIZONA CONSTRUCTION CO., 1700 East Washington St., Los Angeles, $30,950. Noted July 13.

Calif., Sacramento—(Official)—State Highway Comn. received low bids highways; Glen County, Div. 3, Route 7, Sect. B, W. B. Esterly, San Francisco, $8,645; Marin County, Div. 4, Route 1, Sect. B, Marin Rock Co., San Anselmo, $25,010.

Calif., Sawtelle—City received low bid paving Santa Monica Blvd. from Los Angeles Paving Co., Los Angeles, $60,810, culvert work, $4,200.

Calif., Ukiah—County let contract highway at Prather Gulch to W. L. PROCTOR, Santa Rose.

Calif., Ventura—County let contract section Ventura-Nordhoff Rd. to ISBELL CONSTRUCTION CO., Corona, $4,674.

Ont., Windsor—City let contract paving Howard Ave. to MERLO & RAY, Walkerville, $45,000.

INDUSTRIAL WORKS

Proposed Work

Maine, Biddeford—Business Men's Association making plans for 3-story factory. E. E. Greenwood, Skowhegan, Engr.

N. H., Portsmouth—City plans 4-story factory to be leased by Sears-Roebuck Co., Arthington St. and Homan Ave., Chicago. About $100,000.

Mass., Ipswich—F. L. Burke & Son making plans for storage building. Penn Varney, 25 Exchange St., Lynn, Arch.

Mass., Newburyport—N. D. Dodge Shoe Co., Prince Pl., making plans for factory. E. S. Dodge, 15 Exchange St., Boston, Arch.

R. I., Auburn—Universal Winding Co., 95 South St., Boston, Mass., making plans for addition. F. P. Sheldon & Sons, Industrial Trust Bldg., Providence, Engr.

R. I., Pawtucket—Crown Manufacturing Co. made plans for 4-story addition. C. R. Makepeace, Butler Exchange Bldg., Providence, Arch. Noted July 20.

Conn., Rockville—E. J. Martin Sons making plans for 3-story, 52x112-ft. factory. J. H. McGray, 18 North Park St., Arch.

N. Y., Buffalo—C. Klinck Packing Co. making plans for 2-story shop and market house. About $15,000. L. P. Klinck, 37 Depot St., Pres.

N. Y., Le Roy—Le Roy Salt Co. making plans for factory. G. Schautz, 346 Ellicott Sq., Buffalo, Engr.

N. Y., Lockport—Lockport Glass Co. made plans for 2-story addition, Michigan St. About $50,000. Noted June 29.

N. Y., New York—(Borough of Bronx)—Columbia Metal Box Co., 226 East 144th St., plans 4-story factory on Rider Ave. About $50,000.

N. Y., New York—(Borough of Brooklyn)—A. G. Spaulding Bros., Pacific St. and 6th Ave., made plans for 6-story addition to factory. About $10,000. Starrett & Van Vleck, 8 West 40th St., Manhattan, Arch.

N. Y., New York—(Borough of Manhattan)—Charles Adams made plans for garage, 157th St. west of Riverside Drive, about $48,000. J. Harden, Arch.

N. Y., New York—(Borough of Manhattan)—Alt Realty Co., 15 West 45th St., made plans for 2 factories, 23 West 45th St., $75,000, 13 West 45th St., $100,000. W. H. Gompert, 171 Madison Ave., Arch.

N. Y., New York—(Borough of Manhattan)—Steinway & Sons plan 12-story building at 109-13 West 57th St.

N. Y., New York—(Borough of Queens)—Knickerbocker Ice Co. plans plant. Mortenson & Co., 405 Lexington Ave,. Arch.

N. Y., Niagara Falls—Niagara Electro Chemical Co. making plans for 3-story, 40x175-ft. factory. H. R. Carveth, Gen. Mgr. Noted Mar. 23.

N. Y., Solvay—Pass & Seymour, Inc., making plans for 1-story factory. Russell & King, 602 Snow Bldg., Syracuse, Arch.

N. Y., Sonyea—Craig Colony for Epileptics making plans for 2-story cold-storage plant. About $35,000. L. F. Pilcher, Capital, Albany, Arch.

N. J., Bayonne—Bush Terminal Co., 100 Broad St., New York, making plans for plant at Bayonne. About $20,000,000. B. F. Cresson, City Park Bldg., Bayonne, Engr. Noted May 25.

INDUSTRIAL WORKS—Continued

N. J., Bloomfield—General Electrical Co. plans 5-story, 75x800-ft. factory. About $750,000.

N. J., Hackettstown—State making plans for ice house and garage. G. S. Drew, State House, Trenton, Arch.

N. J., Jersey City—Lubricating Metal Co. making plans for 1-story, 50x100-ft. factory. About $15,000. Shape & Bready, 220 West 42d St., New York, Arch.

Penn., Coopersburg—Coppersburg Casket Co. plans addition to factory. About $10,000. W. L. Weirback, Windedock St., South Bethlehem, Pres.

Penn., Philadelphia—E. G. Budd, Manufacturing Co. making plans for addition to factory. Ballinger & Perrot, 17th and Arch St., Arch.

Penn., Philadelphia—T. Keyser, 240 South 11th St., making plans for 3-story, 25x100-ft. addition to factory. About $15,000.

Penn., Philadelphia—Powelton Storage House making plans for addition. About $20,000. A. B. Gill, 450 North Wilton St., Arch.

Penn., Pittsburgh—Atlantic Refining Co., 906 Glenwood Ave., soon lets contract for warehouse on Butler Ave., about $125,000.

Penn., Pittsburgh—S. Solof, Sidney St., making plans for warehouse. About $12,000. W. A. Thomas, 322 Park Bldg., Arch.

Va., Norfolk—J. A. Parker making plans for 2-story, 64x166-ft. addition. About $15,006.

W. Va., Parkersburg—Arrow Lumber Co. plans to rebuild plant recently destroyed by fire.

Fla., Ft. Myers—Lee County Truckers' and Farmers' Association plans packing plant. Franklin Miles, Pres.

Ala., Birmingham—Southern Sewer Pipe Co. to rebuild plant, 28th Ave. and 22d St., recently destroyed by fire. W. S. Dickey, Pres.

Tenn., Cumberland Gap—Cumberland Mountain Minerals Co. plans cement plant.

Ohio, Alliance—Alliance Sanitary Milk Co. made plans for dairy plant, about $25,000. R. S. Harsh, Alliance Bank Bldg., Alliance, Arch. Noted Mar. 23.

Ohio, Bucyrus—Ohio Crane Co., recently incorporated plans plant. C. Gallinger, interested.

Ohio, Cleveland—Cleveland Electro Metals Co., 1400 West 25th St., plans factory, Canal Rd., about $10,000.

Ohio, Cleveland—Commercial Bookbinding Co., Vulcan Bldg., plans plant on West 110th St.

Ohio, Cleveland—Dann Oil Cushion Spring Insert Co., 2246 Indiana Ave., Chicago, plans plant in Cleveland. V. W. Sincere, Secy.

Ohio, Cleveland—Elyria Iron and Steel Co. made plans for 1-story, 158x500-ft. factory. About $100,000. H. B. Wick, 232 East 131st St., Pres. Noted July 20.

Ohio, Cleveland—William Plotz Iron Works Co., 401 Champlain Ave., plans plant on West 6th St., about $25,000.

Ohio, Columbus—Columbus Cadillac Co. making plans for 2-story sales building. O. C. Darst, Arch.

Ohio, Columbus—Columbus Oil Cloth Co., 1280 Grant Ave., granted permit for addition, about $10,000.

Ohio, Dayton—Smith Engine Co., Louisville, Ky., plans factory. About $120,000. Schenck & Williams, 591 Arcade Bldg., Cleveland, Arch.

Ohio, Finlay—Adams Truck, Foundry and Machine Co. plans additions, West Main and Cross St.

Ohio, Geneva—Harvey System Silo Works plans factory. G. C. Harvey, Pres.

Ohio, Hamilton—Schantz Manufacturing Co. plans to rebuild plant recently destroyed by fire.

Ohio, Lima—Hester Tire and Rubber Co. plans factory on Jefferson St.

Ohio, Lorain—Hoffman Heater Co. to enlarge factory, Washington St. A. H. Babcock, Pres.

Ohio, St. Bernard—Union Distilling Co., Reading Rd., making plans for 2 additions. Ward Baldwin, 809 Commercial Bldg., Cincinnati, Arch.

Ohio, Youngstown—City plans storehouse, about $50,000. F. M. Lillie, City Engr.

Ind., Anderson—Remy Electric Co. receives bids in August for addition, about $30,000. F. L. Atwood, Mgr. Noted Mar. 16.

Ind., Franklin—National Manufacturing Co., recently incorporated, plans factory.

Ind., Indianapolis—Gibson Co., 416 North Capital Ave., made plans for 5-story service station and sales building, Capital Ave. and Michigan St. About $400,000. Noted July 13.

Ind., South Bend—International Rubber Co., Farmers Trust Bldg., making plans for factory. W. W. Snyder, Union Trust Bldg., Arch. G. W. Odell, Secy. Noted July 20.

Mich., Detroit—Michigan Iron and Wire Works plan factory. C. A. Weigel, Sheridan and St. Paul Ave., Mgr.

Mich., Flint—Dort Motor Car Co. granted permit for factory, about $70,000. Noted June 29.

Mich., Manistique—Manistique Handle Co. plans to rebuild plant recently destroyed by fire. About $25,000.

Ill., Chicago—Acme Packing Co. plans plant, Western Ave. Blvd. and 45th St., about $250,000.

Ill., Chicago—Hughes Electric Heating Co., 211 West Schiller St., plans factory at Waller Ave. and Taylor St., about $150,000.

Ill., Chicago—Pyott Co. making plans for 2-story factory. About $75,000. H. H. Mahler, 1610 West Madison St., Arch.

Ill., East St. Louis—Bell Oil Co. plans refinery. F. C. Bretsnyder, 115 Ferry St., St. Louis, Mo., in charge.

Wis., Cedarburg—O. J. Groth making plans for 2-story, 32x50-ft. creamery. About $10,000. C. Hilgen, Cedarburg, Arch.

Wis., Menasha—John Strange Paper Co. making plans for factory. Noted July 20.

Wis., Port Edwards—Nekoosa-Edwards Paper Co. making plans for 2-story, 156x160-ft. warehouse. L. A. De Guere, Wood Bldg., Grand Rapids, Engr.

Minn., Mankato—Mayer Bros. Manufacturing Co. making plans for 1-story, 100x400-ft. factory.

Kan., Wichita—Wichita Flour Mills Co. plans addition. About $250,000. John Moore, Vice-Pres.

Mo., Columbia—Hamilton, Brown Shoe Co. plans factory. About $40,000. P. L. Hogan, Supt.

Mo., St. Louis—Hemmelmann-Spackler Real Estate Co. plans manufacturing buildings, Forest Park Blvd. and Market St. About $1,000,000. E. A. Hermann, Mgr.

Mo., St. Louis—Silverstein's Garment Cleaners plan factory. About $15,000. S. Silverstein, 633 North Sarah St., interested.

Ark., Rogers—Rogers Ice and Cold Storage Co. will construct a 2-story, 65x105-ft. cold-storage building. Estimated cost, $20,000.

Tex., Sweet Water—People's Cotton Oil Co. plans cotton-seed oil mill, about $50,000. F. J. Phillips, interested.

Tex., Waco—American Express Co. plans warehouse.

Utah, West Jordan—(Midvale post office)—J. W. McHenry, Murray, plans factory, about $300,000.

Wash., Spokane—Balfour-Greely Grain Co. plans storage building, about $15,000.

Calif., El Segundo—Potassium Manufacturing Corporation plans potash reduction plant. First unit about $40,000.

Calif., Guasti—Italian Vineyard Co. plans to rebuild plant recently destroyed by fire. About $300,000. S. Guasti, 3500 West Adams St., Los Angeles, Secy.

Calif., Los Angeles—Diamond Laundry Co., 241 East 5th St., made plans for laundry, 8th St. and Towne Ave., about $100,000. Train & Williams, Exchange Bldg., Arch.

Calif., Los Angeles—Los Angeles Union Terminal Co. soon lets contracts for 2 market buildings and 2 warehouses, Central Ave. and 7th St. B. Johnson, Pres. John Parkinson, Security Bldg., Arch. Noted Apr. 13.

Calif., Sacramento—Willys-Overland Co. made plans for 3-story plant, about $100,000.

Calif., Turlock—National Ice Co., 805 South Center St., plans plant, about $100,000.

Ont., Arnprior—David Craig plans grist mill, about $18,000.

Ont., Colbyville—Corby Distilling Co. plans addition, about $15,000.

Sask., Saskatoon—Western Dristributors, Ltd., plans warehouse.

B. C., Vancouver—Alberta Lumber Co. plans 2-story mill, 6th and Willow St., about $100,000.

Bids In and Contracts Awarded

Maine, Sanford—L. F. Trafton will build factory by day labor. About $10,000.

Mass., Leominster—Viscoloid Co. let contract two 1-story factories to WILEY & FOSS, Central St., Fitchburg.

Mass., Ware—Ideal Coated Paper Co., Brookfield, let contract 1-story, 100x300-ft. factory to H. P. CUMMINGS CONSTRUCTION CO., 14 Prospect St. Noted Mar. 23.

R. I., East Providence—Columbia Narrow Fabric Co. let contract factory to B. F. SMITH CONSTRUCTION CO., Pawtucket.

R. I., Providence—American Emery Wheel Works, 325 Waterman St., let contract 3-story, 50x90-ft. factory to O. D. PURINGTON & CO., 624 Industrial Trust Bldg. About $20,000.

Conn., East Hartford—Case & Marshall, Inc., let contract paper mill to J. H. GROZIER CO., 721 Main St., Hartford.

Conn., Hartford—Whitney Manufacturing Co., 237 Hamilton St., let contract 4-story, 58x112-ft. addition factory to J. H. GROZIER CO., 721 Main St. About $20,000.

Conn., Southington—Clark Bros. Bolt Co. let contract 1-story, 40x300-ft. addition to L. A MILLER, 21 Church St., Meriden. About $25,000.

Conn., Wallingford—H. L. Judd Co. let contract addition factory to C. F. WOODING CO.

Conn., Waterbury—Waterbury Overland Co. let contract 2-story, 100x193-ft. garage and service station to VALCOURT & LaCROIX, 95 Bank St.

Conn., West Hartford—Abbott Ball Co. let contract addition factory to H. B. HIBBARD & CO., 140 Main St., New Britain.

N. Y., Frankfort—Pratt Chuck Co. let contract addition factory to G. HOPP, 1022 Seymour Ave., Utica. About $20,000.

N. Y., Glenwood—(Yonkers post office)—Habirshaw Electric Cable Co., 10 East 43d St., New York, let contract addition, Glenwood, to FLYNN BUILDING AND CONSTRUCTION CO., 9 Church St., New York. About $100,000. Noted Feb. 10.

N. Y., Groton—Corona Typewriter Co. let contract 4-story, 50x162-ft. factory to McCLINTIC-MARSHALL CO., Oliver Bldg., Pittsburgh, Penn.

N. Y., Hornell—Merrill Silk Co. let contract 1-story factory to S. L. TUCKER, 21 Adsit Pl. About $25,000.

N. Y., Newburgh—Du Pont Fabrikoid Co. will build addition to plant by day labor. About $50,000. Noted Mar. 23.

N. Y., New York—(Borough of Brooklyn)—Waterbury Co., 32 Taffe Pl., let contract 2-story, 50x150-ft. warehouse to TULLIS & BLANCHARD, 326 East 42d St., Manhattan. About $15,000. Noted July 6.

N. Y., New York—(Borough of Manhattan)—Compton Building Corporation let contract story, 75x200-ft. garage to INDUSTRIAL ENGINEERING CO., 30 Church St. About $75,000.

N. Y., New York—(Borough of Manhattan)—Glass Realty Co. let contract warehouse and garage to LOUIS WEBER BUILDING CO., 171 Madison Ave. About $15,000.

N. Y., New York—(Borough of Manhattan)—G. R. Secor, 60 Broadway, let contract 9-story warehouse to E. J. EPSTEIN, 55 Liberty St.

N. Y., New York—(Borough of Queens)—Loft Candy Co., Broome and Center St., let contract 5-story factory at 317 Hamilton St., Long Island City to J. H. CARL, INC., 510 1st Ave., Manhattan. Noted June 15.

N. Y., Niagara Falls—Niagara Alkali Co., Buffalo Ave. and Union St., let contract 2-story addition to BRAAS BROS., 1110 Whitney St., about $750,000. Noted July 6.

N. Y., Williamson—K. M. Davis Co., Inc., will build 2-story, 128x255-ft. cold-storage plant by day labor. About $18,000.

N. J., New Brunswick—Ringwalt Linoleum Co. let contract addition to FRED KILGUS, Newark.

N. J., Rutherford—Fuchs & Lang let contract 1-story, 184x197-ft. addition to CLAUS AHRENS, 83 Uhlandt St. About $30,000. Noted July 20.

Penn., Aliquippa—Mutual Brewing Co. let contract 2-story, 50x100-ft. warehouse to B. A GROAH CO., 847 West North Ave., Pittsburgh. About $16,000.

Penn., Lancaster—S. H. Bally, 514 South Shippen St., lowest bidder for factory for Watson Manufacturing Co. About $50,000.

Penn., Pittsburgh—Schenley Farms Co. let contract 9-story, 110x150-ft. warehouse to G. HOGG CO., Keystone Bldg. About $400,000. Noted Mar. 23.

Penn., Scranton—Otto R. Conrad let contract garage and Mulberry Ave. to P. STRIPP, North Washington Ave., Scranton. About $10,000.

Penn., West View—(Pittsburgh post office)—Pittsburgh Railways Co. let contract car barns to D. T. RIFFIE, Kennan Bldg., Pittsburgh. About $35,000. F. Uhlenhart, Jr., 435 6th Ave., Pittsburgh, Ch. Engr.

Md., Baltimore—Gomprecht & Benesch let contract 4-story warehouse, Mulberry and Jasper St., to CONSOLIDATED ENGINEERING CO., Calvert Bldg., Baltimore. About $50,000. Noted June 29.

Md., Baltimore—E. H. Koester, 644 West Lexington St., let contract 3-story bakery to C. L. STOCKHAUSEN CO., INC., Gay and Water St. Noted July 20.

N. C., Durham—Liggett-Myers Tobacco Co. let contract addition to J. T. SALMON, Durham, about $100,000. Noted July 13.

N. C., Durham—Pilot Hosiery Mill Co. let contract factory to W. H. WOODS. J. H. Stone, Gen Mgr.

Ala., Birmingham—(Official)—Birmingham Ice and Cold Storage Co. let contract 3-story addition, Ave. E and 22d St. to E. F. HETTRICK ENGINEERING CO., 1502-4 Empire Bldg., about $50,000.

Ohio, Cincinnati—Graydon Estate let contract 6-story garage and salesroom to FERRO CONCRETE CO., Richmond and Harriet St. About $90,000. Noted Dec. 9.

Ohio, Cleveland — (East Cleveland) — Builders Supply and Fuel Co., 8110 Kinsman Rd., let contract warehouse to G. E. RUDOLPH, 5217 Woodland Ave. About $15,000.

Ohio, Massillon—Ohio Board of Administration will rebuild laundry by day labor. About $20,000.

Ohio, Shelby—Ohio Seamless Tube Co. let contract factory to S. AUSTIN, 14230 Euclid Ave., Cleveland. About $150,000. Noted June 8.

Ind., Lafayette—Ross Machine Co., North 8th St., let contract factory to W. LINNVILLE, Lafayette. Noted June 1.

Mich., Bay City—Bay City Dredge Co let contract addition, Center Ave. Rd., to BAY CITY CONSTRUCTION CO., Bay City.

Mich., Belding—Richardson Silk Co. let contract 4-story addition to A. W. MORGAN, Grand Rapids. About $20,000. Noted July 13.

Mich., Charlotte—Borden Condensed Milk Co. let contract dry milk plant to H. VANDER HORST, Kalamazoo. About $40,000. Noted July 13.

INDUSTRIAL WORKS—Continued

Mich., Detroit—Barrett Manufacturing Co., 17 Battery Pl., New York, let contract condenser building and distillation plant to PIPER & DEMSKE, 208 Sun Bldg., Detroit. About $100,000. Noted July 13.

Mich., Detroit—England Manufacturing Co. let contract 1- and 2-story, 125x300-ft. factory to L. D. PETERSON, Moffat Blk.

Mich., Grand Rapids—Globe Knitting Co. let contract factory to HAUSEN, OWEN-AMES CO., Michigan Trust Bldg., Grand Rapids, about $125,000. Noted May 4.

Mich., Kalamazoo—Gibson Mandolin and Guitar Co. let contract plant Parsons St. to GERARD VAN ECK, about $35,000.

Mich., Petoskey—Petoskey Block and Manufacturing Co. let contract dry kilns to NATIONAL FIREPROOFING CO., Grand Rapids.

Mich., Saginaw—Werner & Pfleiderer Co. let contract 2-story, 50x98-ft. addition to factory to J. S. KERNS & SON, 207 South 3rd St. About $15,000.

Ill., Chicago—American Brake Shoe and Foundry Co. let contract 1-story, 121x185-ft. addition foundry to SCHMIDT BROS. CONSTRUCTION CO., 105 North Clark St. About $45,000.

Ill., Chicago—J. Birk, 457 Wellington Ave., let contract 7-story warehouse and office building to H. ERICSSON, 139 North Clark St. About $110,000. Noted June 8.

Ill., Chicago—Crown Stove Works, 46th Ave. and 13th St., let contract 2-story, 50x100-ft. warehouse to J. KAVANAUGH, JR., 209 North Lexington St., Cicero. Noted July 20 under Cicero.

Wis., Sheboygan—Jung Shoe Co., 302 North 8th St., let contract 3-story, 50x135-ft. factory to W. C. WEEKS, 720 Ontario St. Noted Apr. 20.

Iowa, Clinton—City Garage Co., let contract 1-story garage to HARING BROS., Wilson Bldg. About $30,000. Noted July 20.

Iowa, Davenport—Martin-Woods Co., 115 Perry St., let contract 5-story, 72x100-ft. warehouse to H. G. HAYS CONSTRUCTION CO., 119 Dover Ct. About $55,000. Noted July 6.

Minn., Minneapolis—American Brake Shoe and Foundry Co., 37th Ave., N. E., and University Ave., let contract addition foundry to P. C. GIGUERE, 410 Northeast 7th St. About $15,000.

Minn., Minneapolis—International Harvester Co. of America let contract 9-story, 126x162-ft. factory to J. & W. A. ELLIOTT CO., 96 Lumber Exchange Bldg., Minneapolis. About $200,000. Noted Feb. 3.

Minn., Minneapolis—Clarkson Lindley, Lindley Bldg., let contract 2-story, 42x150-ft. warehouse to M. SCHUMACHER, 39 Dell Pl. About $25,000.

Neb., Omaha—Armour & Co. let contract for ice and cold-storage plant and machine shop at 28th and Q St. to F. P. GOULD & SON, City National Bank Bldg., $235,000. Noted June 23.

N. D., Grand Forks—Pewell Elevator Co. let contract Elevator and Coal shed to HICOCK CONSTRUCTION CO., Flour Exchange, Minneapolis.

N. D., Sykeston—Farmers' Warehouse Association let contract warehouse and elevator to C. H. BENSON, 406 Corn Exchange Bldg., Minneapolis.

Ark., Stuttgart—Stuttgart Rice Mill Co. let contract elevator to R. R. BOYD, about $20,000. Noted June 1.

Tex., Houston—(Press)—Petroleum Refining Co. let contract oil refinery near Houston to PETROLEUM IRON WORKS CO., Sharon, Penn., about $1,000,000.

Ont., Leamington—Heintz Pickle Co. to build addition by day labor. About $25,000. Noted July 13.

FEDERAL GOVERNMENT WORK

Proposed Work

Maine, Ft. Williams—Buildings—Constructing Quartermaster, Ft. Williams, receiving bids Aug. 17. Noted July 20.

Maine, Rumford—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Aug. 11. Noted July 20.

N. Y., Buffalo—Buildings—U. S. Engineer Office, Buffalo, receiving bids Aug. 21, Black Rock Harbor. Noted Dec. 30.

Penn., Philadelphia—Arsenal—U. S. Government plans. About $125,000. Address Col. G. Montgomery, Frankford Arsenal.

Penn., Philadelphia—Fuse Shop—U. S. Government plans. About $123,300. Address Col. G. Montgomery, Frankford Arsenal.

Penn., Philadelphia—Lead Shop—U. S. Government plans. About $12,000. Address Col. G. Montgomery, Frankford Arsenal.

Penn., Philadelphia—Magazine Buildings—U. S. Government made plans for five 1-story. About $90,900. Address Col. G. Montgomery, Frankford Arsenal, Philadelphia.

Penn., Philadelphia—Post Office and Custom House—U. S. Government plans. About $30,000. J. A. Wetmore, Treasury Dept., Washington, D. C., Arch.

Penn., Philadelphia—Sewer—U. S. Government plans. About $9,000. Address Col. G. Montgomery, Frankford Arsenal.

D. C., Washington—Courthouse—U. S. Government plans 2-story. About $200,000.

D. C., Washington—Factory—U. S. Government plans. About $500,000. H. D. Baker, Secy. of War, State, War and Navy Bldg., 17th and Pennsylvania Ave., N. W.

D. C., Washington—Factory—U. S. Government plans. About $19,000. H. B. Sweeney, Asst. Secy., Interior Dept.

D. C., Washington—Field House—U .S. Government plans. About $50,000. Address Col. H. Hart, Eng. Corp., 1729 New York Ave., N. W.

D. C., Washington—Hospital—U. S. Government plans. About $55,000. H. B. Sweeney, Asst. Secy. Interior Dept.

D. C., Washington—Store House and Shop Building—U. S. Government plans. About $24,755. H. B. Sweeney, Asst. Secy., Interior Dept.

Va., Ft. Monroe—Buildings—Quartermaster, Ft. Monroe, receiving bids July 31 repairing post hospital building 182 and isolation hospital 162.

Va., Warrenton—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Sept. 19.

Ga., Macon—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Aug. 3, about $75,000. Noted July 6.

Fla., Key West—Fire Protection System—F. R. Harris, Ch. Bureau of Yards and Docks, Navy Dept., Washington, receiving bids Aug. 12.

Ohio, Ashland—Building—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Aug. 25, about $140,000. Noted May 11.

Minn., Minneapolis—Post Office—U. S. Government appropriated $100,000 for remodeling.

Ark., Batesville—Repairing Driveway—S. Demer, Custodian, receiving bids Aug. 10 for repairing.

Ark., El Dorado—Building—U. S. Government appropriated $50,000.

Ore., Portland—Seawall and Wharf—Lighthouse Inspector, Portland, receiving bids Aug. 7, Mukiltec Light Sta., Wash.

Panama—Miscellaneous Supplies—Maj. E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, receiving bids Aug. 7.

Panama—Miscellaneous Supplies—Maj. E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, receiving bids July 31.

Bids In and Contracts Awarded

N. Y., New York—Water and Sewer System—Government let contract to R. C. EMMONS, 9406 3d Ave., $4,540. Noted June 15.

D. C., Washington—Paving Pitch—Comrs. let contract to BARRETT MANUFACTURING CO., Philadelphia, $14 per ton.

Utah, Payson—Reclamation—U. S. Reclamation Serv. let contract Div. 10 laterals, High Line Canal, Strawberry Valley Project, to REYNOLDS-ELY CONSTRUCTION CO., Springville, $130,516. Noted June 29.

Ore., Hermiston—Canal Work—U. S. Reclamation Serv. let contract, Umatilla Project, to NEWPORT LAND AND CONSTRUCTION CO., Hermiston, $32,254. Noted July 6.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. J., Trenton—Dredging—Commerce and Navigation Comn., State House, receiving bids Aug. 1, section of Inland Waterway, Barnegat Bay. B. F. Cresson, Jr., Ch. Engr.

Miss., Clarksdale—Ditch—Comrs. Harris Bayou Drainage Dist. receiving bids Aug. 9. A. L. Dabney, 81 Porter Bldg., Memphis, Tenn., Engr.

Miss., Marks—Drainage—County made surveys for Newsum Lake Drainage Dist. Southern Engineering Co., Clarksdale, Engr.

Ill., Aledo—Drainage—Bay Island Levee and Drainage Dist. plans to spend $50,000 to repair recent storm damage. Address County Clerk, Aledo.

Ill., Paxton—Ditch—Comrs. Lyman Township Drainage Dist. No. 1 receiving bids Aug. 5, 58,312 cu.yd.

Iowa, Muscatine—Levee—Drury Drainage Dist. making plans rebuilding protecting levee, about $65,000. Noted July 8.

Minn., Benson—Ditches—County plans to let contract in September. F. B. Gardner, Benson, Engr. Noted Apr. 27.

Minn., Minneapolis—Dredging—Park Bd. making plans, Lake Calhoun. J. A. Ridgeway, Secy.

Minn., Morris—Ditch—County receiving bids Aug. 2, No. 18, about $65,676. C. R. Wollthan, Morris, Audr.

Minn., Pipestone—Ditch—County plans Judicial Ditch No. 1. About $175,000. J. R. Johnson, Slayton, Engr.

Kan., Wichita—Drainage—County plans, Kessler Lake. Address County Clk., Wichita.

S. D., Howard—Ditch—Miner County made plans for Ditches Nos. 3 and 4. C. A. Trimmer, Madison, Engr. Noted Apr. 27.

S. D., Madison—Ditches—Lake County making plans for Ditches Nos. 1 and 2. M. D. McGillvray, Madison, Audr. Lake County.

Mo., Cape Girardeau—Drainage—Bd. Supervs. Little River Drainage Dist., receiving bids Aug. 11, 16,000 sq.yd. riprap, facing in 3,000 ft. canal slopes. Address Ch. Engr., 409 Himmelberger-Harrison Bldg.

Idaho, Caldwell—Irrigation—Pioneer Irrigation Dist. plans improving Phyllis Canal, about $60,000.

Utah, Fillmore—Drainage—Delta Land and Water Co. plans system, irrigation project in Millard County. About $150,000.

Calif., Fair Oaks—Irrigation—(Official)—Carmichael Irrigation Dist. receives bids about Sept. 1, 3,100 acres. G. E. Fetters, Treas. A. Givan, Sacramento, Engr. Noted Feb. 3.

Calif., Hanford—Reclamation—Bd. County Supervs. approved plans Lovelace Reclamation Dist. About $80,000. H. Clawson, Lemoore, interested.

Calif., Santa Monica—Drainage—County plans, to carry away storm waters near Santa Monica and Sawtelle. Address County Clk., Santa Monica.

Ont., Sarnia—Drainage—Bd. Pub. Wks. plans to tile drains, about $12,000.

Bids In and Contracts Awarded

La., Burtville—Drainage—Bayou Paul Drainage Dist. let contract 70,000 cu.yd. earth removal to PICARD, BUCKMASTER & WEIL, Hennen Bldg., New Orleans, 15.23c. cu.yd. Noted July 6.

MISCELLANEOUS

Proposed Work

Mass., Falmouth—Riprap wall—Harbor and Land Comrs. plans along shore from Easy Chop Light to Highland Wharf in Oak Bluffs.

Mass., Somerville—Bathhouse—City making plans. About $5,500. G. Dudley, Supt. Pub. Bldgs.

R. I., Woonsocket—Mausoleum—A. J. Rothier, 172 Pond St., plans 1-story. About $10,000. W. F. Fountaine, 285 Main St., Arch.

N. Y., New York—(Borough of Bronx)—Stadium—Fordham University plans. About $400,000

N. J., Jersey City—Market—Sulzberger & Sons Co. soon receives bids for market. About $30,000.

N. J., Jersey City—Piers—City plans. C. A. Van Keuren, City Engr.

N. J., Trenton—Tunnel—Pennsylvania R.R. plans at Sullivan Way and West State St., about $119,000. A. C. Shand, Philadelphia, Ch. Engr.

N. J., Westfield—Park Improvements—Town making plans. About $35,000. J. Wallace Higgins, Arch.

Penn., Philadelphia—Fire Station—City made plans, 4212 Ridge Ave. About $15,000. W. H. Wilson, Dir. Dept. Pub. Safety.

Penn., Scranton—Zoo—City prepared plans, Nay Aug Park, about $10,000. J. J. Howley, Scranton, Arch.

Del., Wilmington—Swimming Pool and Pumping Station—F. D. Lackey, 9th and Market St., plans. E. C. May, Dupont Bldg., Wilmington, Arch.

Miss., Gulfport—Seawall—City made plans. About $187,038. H. D. Shaw, Engr.

La., Alexandria—Park—City voted $30,000 bonds. I. W. Sylvester, City Engr.

La., New Orleans—Traveling Cranes—Sewerage and Water Bd. receiving bids Sept. 13, two 15-tons each. F. S. Shields, Secy.

Ohio, Cleveland—Market House—H. T. Jeffrey, Arch., 408 Union Bldg., making plans, East 105th St and Euclid Ave., about $125,000. G. D. Brookins, East 18th St. and Euclid Ave., interested.

Ind., Columbia City—Dam—Tri-Lake Protective and Development Association plans at outlet of Round Lake.

Ind., Culver—Natatorium and Swimming Pool—Culver Military Academy making plans. About $45,000. A. Knell, 816 Olive St., St. Louis, Mo., Arch.

Wis., Winebago—Sprinkler System—State Bd. Control, Madison, receiving bids Aug. 16, North Hospital for Insane.

Kan., Lawrence—Retaining Wall—Atchison, Topeka & Santa Fe Ry. plans along river front. C. F. W. Felt, Railway Exchange, Chicago, Ch. Engr.

Mo., Mexico—Natatorium—Hardin College making plans. About $10,000. B. Elliott, Arch. Noted Apr. 6.

Okla., Tulsa—Racetrack—Improvements to cost $20,000 planned. J. E. Crosbie, interested.

Calif., Los Angeles—Tunnel—City plans, single-bore, 60 ft. wide through Bunker Hill at 2d St., ¾ mi. long. R. W. Stewart, Asst. City Engr.

Calif., Ocean Beach—Pier and Jetties—City made plans. About $38,000 and $87,000. G. Cromwell, City Engr. Noted June 1.

Calif., San Diego—Jetties—City election soon to vote on $87,000 bonds. G. Cromwell, City Engr.

N. S., Sydney—Drydocks—Sydney Foundry and Machine Co. plans.

Bids In and Contracts Awarded

Maine, Gorham—Cemetery Wall—Gorham Cemetery Association let contract to J. A. O'ROURKE CO., 62 Monument St., Portland.

MISCELLANEOUS—Continued

Mass., Salem—Bathhouse—City let contract to J. GOURDEAU, 271 Derby St.

N. Y., Mt. Kisco—Bathing Pavilion and Boat House—A. H. Scribner let contract to H. HUPFAUF, 7 East 42nd St., New York.

N. Y., New York—(Borough of Manhattan)—(Official)—Frogs and Switches—Pub. Ser. Comn. let contract Special Order No. 8, to PENNSYLVANIA STEEL CO., 71 Broadway, $65,316. Noted July 20.

N. Y., New York—(Borough of Manhattan)—Pier Shed—City let contract pier shed, foot of Dover St., to G. E. TILT & CO., 90 West St. About $75,000.

N. J., New Brunswick—Cell Work—Bd. Freeholders let contract, county jail, to VAN DORN IRON WORKS, 189 Broadway, New York, $37,225.

Penn., Erie—Fair Grounds—Chamber of Commerce let contract to KINTERWEST, Lake Rd. About $80,000.

Penn., Pittsburg—Coal Bunker—Atlantic Refining Co., 6th Ave. and Cherry St., let contracts to PHILLIPS LANG & CO., 2415 Fisher Bldg., Chicago. About $20,000.

Miss., Clarksdale—Levee System—Yazoo—Mississippi Levee Bd. let contract 2 mi. to W. N. ROACH & CO., Memphis, about $37,000. Noted Mar. 16.

La., Shreveport—Levee—Caddo Levee Bd. let contract Rattling Slough, Red River, to M. TANSEY, Memphis, Tenn., 22.65c. cu.yd.

Ohio, Youngstown—Retaining Wall—City let contract to VICTOR OLSON CONSTRUCTION CO. About $5,567.

Wash., Seattle—Locomotive Crane—Port Comn. received low bid, Smith Cove Terminals, from Hoflus Steel and Equipment Co., Hoge Bldg., $11,007.

Wash., Seattle—Wharf—Port Comrs. received low bids, Spokane St., as follows: Substructure, W. T. Butler, Seattle, $11,247; creosoting 68,570 lin.ft. piling, J. M. Coleman and Pacific Creosoting Co., White Bldg., 34c. lin.ft.; Puget Sound Bridge and Dredging Co., Central Bldg., rock riprap, $1.80 cu.ft., excavation, 19c. cu.yd. Noted June 1.

Ont., Dundas—Dam—City let contract to McALLISTER & TAYLOR, Hamilton, $6.300.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Maine, Ft. Fairfield—Hotel—Ft. Fairfield Hotel Co. making plans, 3-story, 82x138-ft. About $50,000. H. S. Coombs, 11 Lisbon Rd., Lewistown, Arch.

Mass., Amesbury—High School—City making plans, about $125,000. Prescott & Sodebottom, 12 Pearl St., Boston, Arch. Noted May 11.

Mass., Brookline — Exchange Building — New England Telephone and Telegraph Co., 50 Church St., Boston, making plans.

R. I., Providence—Exchange and Office Building—Providence Telephone Co. and New England Telephone and Telegraph Co., Oliver St., Boston, plan. Clark & Howe, 1304 Turks Head Bldg., Arch.

N. Y., Roscoe—School—Bd. Education making plans, about $60,000. R. P. Berner, Roscoe, Arch.

N. Y., Buffalo—G. Sickles, 694 Erie County Bank Bldg., plans 6-story professional building, about $400,000. Mann & Cook, 91 Dunn Bldg., Arch.

N. Y., New York—(Borough of Manhattan)—Nurses Home—Manhattan Eye, Ear and Throat Hospital made plans, 207 East 63d St. About $300,000. York & Sawyer, Arch.

N. Y., Whitesboro—High School—Bd. Education plans, about $85,000. A. Jones, Secy.

N. J., Bayonne—Hospital—Bd. Dir. Bayonne Hospital plans addition, about $75,000.

N. J., Dover—School—Bd. Education receiving bids Aug. 1, 2-story, about $100,000. J. T. Simpson, Essex Bldg., Newark, Arch. Noted Mar. 30.

N. J., Hightstown—Peddie Institute making plans for 3-story building. About $75,000. J. O. Jackson, 1328 Broadway, New York, Arch. Noted June 1.

N. J., Rahway—City Hall—City plans, about $150,000. F. Marsh, City Engr.

N. J., Ridgewood—High School—Bd. Education receiving bids Aug. 17, about $225,000. H. Ford, Clk. Tracy & Swartout, 244 5th Ave., New York, Arch. Noted Mar. 30.

N. J., West Hoboken—Town Hall—Council making plans, about $100,000. Fagan & Briscoe, 95 River St., Hoboken, Arch.

Penn., Altoona—Hospital—Mercy Hospital Association making plans, 3-story, 42x98-ft. addition. About $50,000. J. A. Elder, Pres. Noted Mar. 30.

Penn., Bradford—Church—Presbyterian Congregation plans. About $100,000. L. E. Mallory, Chn. Bd. of Trustees.

Penn., Butler—High School—Bd. Education receiving bids about Aug. 17. About $400,000. W. G. Eckles, Lawrence Savings Bank Bldg., New Castle, Arch.

Penn., Crafton—Church—First U. P. Church making plans, 1-story, 80x114-ft. About $40,000. T. Hannah, Koeman Bldg., Pittsburgh, Arch.

Penn., Ellwood City—Club House—Shelby Steel Tube Co. made plans, about $40,000. Carlisle & Sharrer, Pittsburgh, Arch. Noted May 11.

Penn., Gettsburg—Hotel—K. S. Lynch, Lincoln Way Hotel, making plans, 5-story. About $80,000. H. E. De Hoff, 48 South 61st St., Philadelphia, Arch.

Penn., Philadelphia—Bank and Office—Girard Life Insurance Co. plans, 2-story, 24x100-ft. About $50,000. N. T. Follwell, Pres.

Penn., Philadelphia—Bank and Office—Franklin Trust Co. made plans, 10-story, 45x100-ft. About $300,000. De Armond, Ashmead & Bickley, 1529 Chestnut St., Arch. Noted June 15.

Penn., Philadelphia—Club House—C. S. Wesley, 1420 Chestnut St., plans, site of Briggs Riding Academy, 2521 Fairmount Ave. About $110,000.

Penn., Reading—Club House—Wyomissing Club plans, about $80,000. R. G. Bushong, Pres.

Penn., Reading—Exchange Building—Bell Telephone Co. plans to improve and enlarge, about $50,000.

Penn., Ridley Park—High School—Bd. Education making plans, 3-story. About $80,000. P. A. Davis, 1713 Sansom St., Philadelphia, Arch. Noted May 25.

Penn., Wilkes-Barre—Parish House—St. Stephens Episcopal Church making plans, 3-story, 80x140-ft. About $100,000.

Md., Baltimore—Dormitory—McDonogh School making plans, Jane Bay. About $40,000. K. W Hurchison, 101 Park Ave., New York, Arch.

Md., Westminister—Western Maryland Theological Seminary making plans for 3-story, seminary, chapel and dormitory. About $40,000. P. Reese, Times Bldg., Arch.

W. Va., Charleston—High School—Bd. Education receiving bids Aug. 15, 3-story, about $65,000.

Ga., Augusta—School—School Bd. receiving bids Aug. 29 for Houghton School, about $50,000. G L. Preacher, Augusta, Arch. Noted June 22.

La., Leesville—Schools—Vernon Parish School Bd. sold $220,000 for Rosepine High School and $220,000 for Hornbeck High School.

Ky., Covington—Hospital—Building Com. of Booth Memorial Hospital receiving bids Aug. 17 for addition. B. T. Wisenall, 617 First National Bank Bldg., Cincinnati, Arch. Noted Apr. 6.

Ky., Melbourne—Administration Building and Mother House—Sisters of Providence plan, 2- and 3-stories. H. McClory, 907 Gerke Bldg., Cincinnati, Arch.

Ky., New Albany—Asylum—County to build, about $40,000. A. R. Smith, Arch.

Ohio, Akron—Hospital—City Hospital making preliminary plans for addition and alterations, about $100,000. F. W. Streibinger, 1900 Euclid Ave., Cleveland, Arch.

Ohio, Akron—City Hall—City plans, about $125,000. F. W. Rockwell, Mayor.

Ohio, Bryan—School—Bd. Education receiving bids Aug. 3, East Butler and South Cherry St., about $120,000. F. A. Culbertson, Clk. W. H. Nichols, Euclid Bldg., Cleveland, Arch. Noted July 6.

Ohio, Cincinnati—Club House—Catholic Young Men's Association plans. About $200,000. Shattuck & Hussey, 19 South La Salle St., Chicago, Arch.

Ohio, Cincinnati—Hospital—Dir. Longview Hospital approved plans, about $250,000. Noted Jan. 13.

Ohio, Cincinnati—Business Men's Club plans 7-story building, 8th and Race St., about $1,000,000.

Ohio, Cleveland—Church—Plymouth Church made plans, Prospect and East 22d St., about $200,000. Steffens & Steffens, 1027 Williamson Bldg., Arch.

Ohio, Cleveland—Church—J. W. Corbusier, 309 Lennox Bldg., making plans, Detroit Ave., about $75,000.

Ohio, Dayton—Club House—Dayton Engineers' Club Building plans, about $100,000. Schenck & Williams, 591 Arcade Bldg., Arch.

Ohio, Dayton—Hospital—County will sell $50,000 bonds Aug. 1. W. H. Azling, Dayton, Clk.

Ohio, Mansfield—Hospital—Bd. Trus. receiving bids Aug. 2. V. Redding, 301 Bird Bldg., Arch. Noted Feb. 24.

Ohio, Massillon—Nurses' Home—Massillon Hospital Association receiving bids Aug. 1, 3-story, 39x111-ft. About $50,000. E. Herman, Central Savings and Trust Bldg., Canton, Arch.

Ohio, Moorefield—School—Bd. Education receiving bids Aug. 4. J. S. Simpson, Clk. R. E. Gotwald, Gotwald Bldg., Springfield, Arch.

Ohio, Toledo—Administration Building—County will soon receive bids, 3-story, about $85,000. T. F. Huber, 752 Spitzer Bldg., Arch. and Engr.

Ohio, Wellington—High School—Bd. Education receiving bids Aug. 2, about $55,000. Althouse & Jones, Citizens Bldg., Mansfield, Arch. Noted July 20.

Ind., Brooklyn—Sanitarium—T. Daggy and J. E. Comer, Mooresville, plan, 3-story. About $100,000.

Ind., Greencastle—Administration Building—De Pauw University making preliminary plans, about $50,000. R. F. Faggett, 956 Lemcke Annex, Indianapolis, Arch.

Ind., Linton—Freeman City Hospital making plans for nurses' home and training school. I. Fritz, Arch.

Ind., Logansport—City Hall—City plans. H. G. Thompson, City Engr.

Ind., Mooresville—Sanatorium—Mooresville Sanitorium plans, Bethany Park, about $100,000. T. B. Daggy and J. E. Comer, M. D., Mooresville, in charge.

Ind., South Bend—Bank—Mishawaka Trust Co. to build, 5-story, about $120,000.

Mich., Ann Arbor—Schools—Citizens voted $60,000 bonds for Bach and Meek Schools. G. T. Ray, Secy. Bd. Education.

Mich., Battle Creek—Y. W. C. A. receiving bids about Aug. 5 for building. About $50,000. C. D. McLane, Robinson Bldg., Rock Island, Ill., Arch. Noted May 25.

Mich., Detroit—Y. W. C. A. making plans for building at East Adams Ave. and Witherell St. About $300,000. C. W. Cowie, Pres. Noted Dec. 30.

Mich., Pontiac—High School—Bd. Education votes about Aug. 1 on $90,000 bonds for addition. S. E. Beach, Pres.

Ill., Aledo—Church—First M. E. Church making plans, about $45,000. W. C. Jones, 30 North LaSalle St., Chicago, Arch. Noted Apr. 13.

Ill., Chicago—School—Catholic Diocese of Chicago, St. Mel's School, plans, 3-story, 100x175-ft. About $80,000. Rev. McDonald, 22 North Kildare Ave., in charge.

Ill., Chicago—School, Church and Auditorium—Our Lady of Solace Church receiving bids about Aug. 1. About $60,000. Z. T. Davis, 64 East Van Buren St., Assoc. Arch.

Ill., Oak Park—Oak Park Hospital plans nurses' home and training school. About $75,000. Sister Lawrence, Wisconsin and Madison St., in charge.

Ill., Steger—Hospital—J. V. Steger Estate plans. About $50,000. G. F. Steger, 238 South Wabash Ave., Chicago, Trustee.

Ill., Streator—School—Bd. Education receiving bids Aug. 2, Sherman School, Dist. 45. P. Saunders, Secy. E. R. Funsten, Racine, Arch. Noted July 20.

Ill., Woodriver—High School—Bd. Education making plans. About $50,000. J. W. Wennedy, Cahokio Bldg., East St. Louis, Arch. Noted Dec. 23.

Wis., Beloit—School—City made plans, about $70,000. Peterson & Johnson, Lundberg Bldg., Rockford, Ill., Arch.

Wis., Berlin—School—Bd. Education making plans. About $100,000. Parkinson & Dockendorff, La Crosse, Arch. Noted June 29.

Wis., Eau Claire—Hospital—Luther Hospital receiving bids Aug. 8. H. M. Knudson, Secy.

Wis., Kenosha—Club House—Bldg. Com. B. P. O. E. receiving bids Aug. 3, about $80,000. Noted Apr. 27.

Wis., Platteville—High School—Bd. Education to make plans, about $100,000.

Iowa, Carroll—High School—Citizens voted $100,000 bonds. C. A. Dieman & Co., Granby Bldg., Cedar Rapids, Arch. Noted July 6.

Iowa, Cedar Rapids—Church—First Baptist Congregation plans. About $50,000. W. C. Jones, 30 North La Salle St., Chicago, Arch.

Iowa, Ft. Dodge—Schools—Citizens voted $70,000 bonds. J. L. Porter, Secy. Noted June 22.

Iowa, Mason City—School—Bd. Education receives bids about Aug. 1, 138x210-ft., about $250,000. J. H. Felt & Co., 800 Grand Ave., Temple, Kansas City, Mo., Arch. Noted July 20.

Iowa, Orange City—(Official)—Bank—Orange City National Bank receiving bids Aug. 3. About $75,000. Buettler & Arnold, 609 Security Bldg., Sioux City, Arch. Noted July 13.

Iowa, Ottumwa—(Official)—High School—Citizens defeated $125,000 bonds. Noted June 29.

Neb., Omaha—Art Museum—City will ask Council to call election to vote on $250,000 bonds.

Neb., Omaha—Hotel—J. T. Allen, Arch., Brandeis Theater Bldg., making plans, 7-story, 66x132-ft. About $100,000.

S. D., Mitchell—Hospital—Methodist State Hospital receiving bids Sept. 1, 3-story, 84x108-ft. About $75,000. J. C. Chapman, Paulton Blk., Sioux Falls, Arch. Noted Apr. 13.

Mont., Missoula—High School—City election soon to vote on $75,000 bonds.

Mo., Carthage—Schools—Bd. Education receiving bids July 31 for 2 schools. About $90,000. J. H. Felt & Co., Grand Ave. Temple Bldg., Kansas City, Arch. Noted July 20.

Mo., Joplin—Y. M. C. A. plans building, about $60,900.

Mo., Joplin—School—City soon lets contract, about $250,000. Smith, Rea & Lovett, Finance Bldg., Kansas City, Arch.

Mo., Moberly—High School—Bd. Education receiving bids Aug. 10, 2-story 50x75-ft. addition. About $40,000. W. H. Sayler, 606 Gumbel Bldg., Kansas City, Mo., Arch. Noted May 11.

BUILDINGS—Continued

Mo., St. Louis—Road House—Anheuser Busch Brewing Association receiving bids in August. About $75,000. Klipstein & Rathmann, Chemical Bldg., Arch.

Ark., Ft. Smith—Church—Methodist Church plans, about $80,000.

Tex., Cleburne—Temple—Masonic Lodge plans, 5-story.

Tex., Farwell—Courthouse—City making plans courthouse, about $50,000. C. Risser & Co., Amarillo, Arch.

Tex., Henrietta — Church — First Methodist Church soon lets contract.

Okla., Tulsa—Masonic Temple—Ackcar Temple Assoc. plans, 7th and Boston St., about $150,000.

Colo., Las Animas—School—School Dist. No. 1 voted $50,000 bonds. Noted June 29.

Idaho, Gooding — College — Trustees Gooding Methodist College plans, about $200,000. S. J. Chaney, Pres.

Ariz., Bisbee—Schools—School Dist. voted $75,000 bonds.

Calif., Hanford—School—City defeated $40,000 bonds. Noted June 29.

Calif., Hayward—School—School Bd. plans, about $100,000. F. I. Lemos, Clk.

Calif., San Bernardino—Hospital—County receives bids latter part of August, about $100,000. L. Farrell, 615 Fay Bldg., Los Angeles. Arch. Noted May 16.

Alta., Red Deer—College—Provincial Government plans addition to Alberta Ladies' College. About $200,000 or $300,000. A. Blakey, Parliament Bldg., Edmonton, Arch.

Bids In and Contracts Awarded

N. H., Manchester—School—City let contract to BUNTON & BERNARD, Manchester, about $65,000. Noted June 15.

Vt., St. Johnsbury—Armory—City let contract to H. P. CUMMINGS CONSTRUCTION CO., Ware, Mass.

Mass., Boston—Theater—New Columbia Theater Co. let contract to FLEISCHMANN CONSTRUCTION CO., Old South Bldg. About $250,000.

Mass., Boston—Building—Nashua Investment Co. let contract to T. A. CLARKE CO., 182 Livingston St., New York. Leased by U. S. Government. About $200,000.

Mass., Cambridge—Club House—Iriquois Club let contract to G. A. FULLER CO., 131 State St., Boston.

Mass., Waltham—School—City let contract, 2-story, to G. T. O'BRIEN, 29 Bay St., Cambridge. About $41,500.

R. I., Providence—Asylum—St. Vincent De Paul Infant Asylum Society let contract to W. H. HAMLYN & SON, 78 Mawney St., about $50,000.

Conn., Bridgeport—Grade School—City let contract, 2-story addition, to CASEY & HURLEY, 120 Pequonnock St. About $112,000. Noted Feb. 3.

Conn., Bridgeport—Bank—Bridgeport Savings Bank, 165 State St., let contract, 2-story, 64x64-ft., to E. BROOKS CO., 3 West 39th St., New York. Noted Jan. 13.

N. Y., Buffalo—Bank—Bank of Buffalo let contract, 3-story, 47x80-ft., to J. W. COWPER CO., 726 Fidelity Bldg.

N. Y., New Rochelle—Theater—New Rochelle Theater Co. let contract, 1-story, to J. McKEEFREY, 1415 Broadway, New York. About $50,000. Noted Mar. 2.

N. Y., Troy—School—St. Mary's Church let contract to W. E. MARTIN CO., Front St., about $100,000. Noted June 29.

N. J., Belleville—School—Bd. Education let contract, additions to Silver Lake School, to AUSTIN J. WALDRON, 29 Overlook Ave. About $42,000. Noted Feb. 3.

N. J., Elizabeth—Schools—Bd. Education let contract (2) to M. BYRNES BUILDING CO., Elizabeth. About $50,506 and $50,676. Noted Mar. 2.

Penn., Altoona—Bank—Lincoln Trust Co. let contract, 2-story, 50x120-ft., to ALTOONA CONSTRUCTION CO. About $75,000. Noted June 1.

Penn., Arnold—Grade School—Bd. Education let contract, addition, Victoria Ave., to WORK BROS. About $42,000. Noted Apr. 20.

Penn., Bethlehem—School—Bd. Education let contract, 2-story, 81x187-ft., to J. A. NAGLE, 12 South 12th St., Allentown. About $59,000. Noted Mar. 9.

Penn., Chester—Church—Providence Avenue M. E. Church let contract, 1-story, 59x66-ft., to THOMAS C. TRAFFORD, 1613 Sansom St., Philadelphia. About $40,000.

Penn., Lancaster—Dormitory and Refectory—Reformed Theological Seminary let contract to H. L. WIANTI, Lancaster, about $100,000. Noted June 29.

Penn., Uniontown—School—Bd. Education let contract to G. M. HALL CO., Homestead, $92,212. Noted June 22.

Del., Newark—Delaware State College let contract 3-story building to GEORGE & BORST, 277 South 11th St., Philadelphia. About $75,000. Noted June 8.

Md., Hagerstown—School—Washington County School Bd. let contract to A. REECHER, Hagerstown, $40,725. Noted June 8.

Ga., Augusta—Theater—Real Estate Development Co. let contract to A. J. TWIGGS & SON, Augusta. About $100,000.

La., Baton Rouge—Schools—City let contract (2) to J. O. BRATHER and (1) to J. CASSINO, both Baton Rouge. Noted June 29.

Ky., Lexington—High School—Bd. Education let contract to COMBS LUMBER CO., $55,468. Noted Apr. 6.

Ohio, Bowling Green—(Official)—Bd. of Trustees, Bowling Green State Normal College, let contract training school and connecting corridor to administration building to STEINLE CONSTRUCTION CO., Fremont, $94,545. Noted July 6.

Ohio, Cincinnati—Ohio Miami Medical College of University of Cincinnati let contract 3-story building to WESTLAKE CONSTRUCTION CO., 717 Locust St., St. Louis, Mo. About $250,000. Noted Jan. 13.

Ohio, Cleveland—Club House—Cleveland Federation of Labor let contract, 4-story, 102x160-ft., to WALTHERS ENGINEERING CO., 1941 East 66th St. About $100,000. Noted June 8.

Ohio, Cleveland—Hotel—Murphy Hotel Co. let contract, 9-story, 50x84-ft., to J. L. STUART, Marshall Bldg. About $140,000. Noted Sept. 23.

Ohio, New Straitsville—(Official)—School—Bd. Education let contract to TAYLOR & LINN, Zanesville. Noted July 6.

Ohio, Youngstown—Bank and Office—Home Saving and Loan Co. let contract, 8-story, 70x135-ft., to HELLER BROS., Furnace St. About $250,000.

Mich., Grand Rapids—High School—Bd. Education let contract addition to GENTZ BROS., Grand Rapids, $112,935. Noted Mar. 2.

Ill., Chicago—High School—Bd. Education let contract, 2-story, 152x244-ft., to B. J. REGNELL, 19 South LaSalle St.

Wis., Grand Rapids—Bank—Citizens National Bank let contract to A. F. BILLMYRE, Grand Rapids. Noted Mar. 30.

Wis., Milwaukee—Club House—Ticonic Investment Co., 927 Wells Bldg., let contract, 12-story, 120x120-ft., to FOSTER CONSTRUCTION CO., Caswell Blk. About $600,000. Noted Nov. 11.

Wis., Milwaukee—Bank—Mitchell Street State Bank let contract, 2-story, 30x126-ft., to S. J. WABISZEWSKI, 880 Layton Blvd. About $75,000. Noted May 18.

Wis., New Richmond—Grade School—Bd. Education let contract to FARNAM BROS., Minneapolis. About $40,000. Noted June 1.

Wis., Portage—High School—City let contract to NORTHERN CONSTRUCTION CO., 421 Milwaukee St., Milwaukee. About $89,000. Noted June 22.

Wis., Shawano—High School—Bd. Education let contract to IMMEL CONSTRUCTION CO., Fond du Lac, $77,843. Noted Apr. 27.

Iowa, Des Moines—School—Bd. Education let contract, 2-story, Lucas, to GETCHELL & SUGARMAN, 212 Arcade News Bldg. About $50,000.

Iowa, Des Moines—School—Bd. Education let contract, Given Nash, to W. F. KUCHARO, Hubbell Bldg. About $75,000.

Iowa, Fairbanks—School—Bd. Education let contract, 2-story, 80x100-ft., to BRAUN BROS., Dubuque. About $50,000. Noted May 11.

Minn., Adams—School—Bd. Education let contract to FLEISCHER CONSTRUCTION CO., 515 Plymouth Bldg., Minneapolis. About $40,000. Noted July 6.

Minn., Duluth—Theater—F. M. Phelps let contract 3-story, 50x140-ft., to DAUPLAISE & CO., 1111 Tower Ave., Superior, Wis. About $120,000.

Minn., Hibbing—Hospital—E. S. Adams, 426 Mahoning St., let contract to EARNAM BROS., 205 Plymouth Bldg., Duluth.

Minn., Hibbing—Library—Library Bd. let contract addition Carnegie Library to TOMLINSON & EGAN, Ashland, about $70,125. Noted May 4.

Kan., Emporia—Administration Building—College of Emporia let contract to RHIEHART DONOVAN CO., Oklahoma, about $95,000.

Mo., Columbia—Hotel and Store—Daniel Boone Tavern Co. let contract to L. W. DUMES CONSTRUCTION CO., Guitar Bldg., Columbia. About $110,000. Noted Mar. 9.

Mo., Nevada—Sisters of St. Francis let contract convent, orphanage, chapel and dormitory to W. M. SUTHERLAND B. & C. CO., 915 Olive St., St. Louis. About $100,000. Noted Apr. 6.

Tex., Van Alstyne—High School—Bd. Education let contract to WALL & GIBBS, Sherman.

Okla., Oklahoma—Hospital—Sisters of St. Francis let contract addition to St. Anthony's Hospital to A. O. CAMPBELL, Oklahoma, $85,000. Noted Jan. 6.

ELIMINATION OF GRADE CROSSING, WINDSOR, CONN.

Bids received June 20 by State Highway Commissioner for elimination of grade crossing, from (A) Hyde Park Construction Co., 164 Federal St., Boston; (B) Long Bros., 80 State St., Hartford; (C) Barbara & D'Auria, 63 Bank St., Waterbury; L. Suzio Construction Co., Colony St., Meriden, $41,477; F. Arrigoni & Bro., 605 Bank St., Middletown, $42,545; C. A. Sibley, 902 Chapel St., New Haven, $48,525. The item bids of the three lowest bidders were as follows:

	A	B	C
Grubbing (lump sum)	$800.00	$500.00	$200.00
14,500 cu.yd. earth excavation	.75	.50	.57
100 cu.yd. rock excavation	2.75	3.00	2.50
93 cu.yd. first-class concrete	10.00	12.00	9.43
50 cu.yd. masonry	6.50	7.00	6.50
1,880 cu.yd. second-class concrete	6.99	8.50	7.85
930 cu.yd. concrete pavement	6.00	6.75	7.85
4,500 sq.yd. reinforcing for pavement	.15	.15	.15
Five year guarantee bond for pavement (per sq.yd.)	.10	.05	.10
150 tons trap rock for road surface	1.65	3.50	2.75
50 tons trap rock screenings	1.65	3.50	2.75
600 cu.yd. crushed stone fill	2.00	2.50	2.50
5 catch basins and strainers (each)	75.00	30.00	35.00
120 lin.ft. 12-in. iron culvert	1.00	1.50	1.35
550 lin.ft. 18-in. iron culvert	1.00	1.25	1.45
400 sq.yd. cobble gutters	1.10	.70	.65
5,000 sq.ft. concrete walk	.11	.15	.16
1,160 lin.ft. concrete curb	.99	1.00	1.00
100 sq.yd. turf relaid	.50	.25	.27
225 lin.ft. fence replaced	.30	.20	.15
1,100 lin.ft. wire fence	.15	.30	.20
465 lin.ft. gas pipe railing	1.25	1.60	1.45
1,500 lin.ft. wood guard railing	.30	.35	.35
Removing brick house (lump sum)	100.00	.50	300.00
Extended totals	$39,178	$39,800	$40,284

In connection with the state contract, the New York, New Haven & Hartford Railroad Co., and the Hartford & Springfield Street Railway Co. will do work on their tracks to conform to the general plan of elimination. The total estimated cost of all the work is placed at $90,000 to $100,000.

BARGE CANAL, ALBANY, N. Y. Contract No. A-1

Bids received June 27 by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal work, Contract No. A-1, from (A) Sherman-Stalter Co., Lyons; (B) E. Brown Baker, Herkimer; (C) Larkin & Sangster, Buffalo. The item bids were as follows:

	A	B	C
Coffer-dams, pumping, bailing and draining (lump sum)	$1,000.00	$600.00	$600.00
1,570 cu.yd. excavation	.75	1.10	1.10
250 cu.yd. forming embankment	.25	.25	.25
555 cu.yd. lining	1.25	1.50	1.50
12,850 sq.ft. steel sheet piling	1.25	1.40	1.25
235 cu.yd. second-class concrete	8.00	8.00	8.00
90 cu.yd. concrete in fish ladder	15.00	15.00	15.00
120 lb. metal reinforcement	.04	.04	.04½
Repairing, maintaining and removing temporary dam (lump sum)	3,600.00	3,500.00	6,200.00
Extended totals	$25,831	$27,946	$28,719

The Westinghouse Air Brake Co. and the **Westinghouse Traction Brake Co.** have removed their St. Louis offices from the Security Bldg. to Suite 1407-1415 Boatmen's Bank Bldg., St. Louis, Mo. C. P. Cass is Mgr.

The Sullivan Machinery Co., 122 South Michigan Ave., Chicago, and Salisbury House, London, England, has established an agency in Holland with Messrs. Petrie & Co., Heerengracht, 141-145, Amsterdam, as its special representative. Through this company the Sullivan air compressors, rock drills, hammer drills, diamond core drills, quarrying and coal-mining machinery will be handled in the Netherlands. This arrangement replaces the Sullivan Machinery Co. agency previously established at the Hague.

Steel Improvements—Following an inspection of the recently acquired Steelton and Maryland plants of the Bethlehem Steel Co., Charles M. Schwarb, Chn. Bd. of Dirs., announced a $70,000,000 improvement program, as follows: $30,000,000 at South Bethlehem; $30,000,000 at Sparrow's Point, and $10,000,000 at Steelton. Improvements at Steelton include blast furnaces, mills, three 20-ton converters, one 150-ton mixer, and two rolling mills, also additional coking facilities will be added. Four blast furnaces, ship yard and plate mills will be added at Sparrow's Point, Md.

SEWAGE DISPOSAL PLANT, HOUSTON, TEX.

Bids received by city for North Side disposal plant from (A) Horton & Horton; (B) H. C. Gass. The item bids were as follows:

	A	B
Plant complete (except excavation) (lump sum)	$164,500.00	$168,290.00
6,500 cu.yd. excavation	1.25	1.30
25 cu.yd. Class I concrete	10.00	12.00
25 cu.yd. Class II concrete	12.00	14.00
175 cu.yd. Class III concrete	12.50	15.00
10,000 lb. reinforcing steel (new billet)	.06	.10
40,000 lb. reinforcing steel (rerolled)	.05	.10
100 cu.yd. conc. water-proofing for concrete	1.50	1.50
6,000 lin.ft. round timber piling (untreated)	.40	.45
100 lin.ft. round timber piling (treated)	.80	.75
2 M ft. b.m. timber sheet piling (untreated)	80.00	55.00
1 M ft. b.m. timber sheet piling (treated)	60.00	90.00
2,000 lb. bolts and tie rods	.10	.10
10 ft. 36-in. reinf. conc. sewer (except exc.)	4.25	5.00
10 ft. 36-in. vit. pipe sewer (except exc.)	5.50	6.00
10 ft. 30-in. vit. pipe sewer (except exc.)	3.50	4.00
10 ft. 24-in. vit. pipe sewer (except exc.)	2.00	1.60
10 ft. 6-in. vit. pipe sewer (except exc.)	.25	.20
40 ft. 20-in. w.-i. pipe	10.00	6.45
20 ft. 16-in. w.i.-pipe	7.00	4.40
20 ft. 12-in. w.-i. pipe	3.00	2.40
20 ft 10-in. w.-i. pipe	2.50	1.95
20 ft. 8-in. w.-i. pipe	2.00	1.35
20 ft. 6-in. w.-i. pipe	1.25	.85
80 ft. 4-in. w.-i. pipe	.75	.50
100 ft. 3-in. galv. pipe	.50	.35
100 ft. 2-in. galv. pipe	.30	.24
200 ft. 1½-in. galv. pipe	.20	.19
200 ft. 1-in. galv. pipe	.15	.13
200 ft. ¾-in. galv. pipe	.10	.09
200 ft. ½-in. galv. pipe	.08	.06
1,000 lb. pipe fittings (black)	.10	.05
1,000 lb. pipe fittings (galv.)	.15	.06
10 ft. 24-in. c.-i. water pipe (leaded sts.)	6.00	6.40
10 ft. 12-in. c.-i. water pipe (leaded sts.)	3.00	2.40
10 ft. 8-in. c.-i. water pipe (leaded sts.)	2.00	1.25
100 ft. 4-in. c.-i. water pipe (leaded sts.)	1.00	.75
1 20-in. air valve	150.00	10.00
1 16-in. air valve	125.00	75.00
1 12-in. air valve	50.00	65.00
2 10-in. air valves	40.00	50.00
6 8-in. air valves	30.00	35.00
6 10-in. air valves	40.00	65.00
10 4-in. air valves	15.00	10.00
100 2-in. R.R. elbow unions	1.25	1.70
1 std. sanitary sewer manholes, 8 ft	60.00	60.00
10 ft. extra depth in M. H. below 8 ft	6.50	6.00
100 ft. concrete box drain, sect. X-X	2.00	.55
2,000 man-hr. labor (common)	.40	.35
2,000 team-hr. teams	.70	.70
2,000 lb. castings	.10	.08
100 sq.yd. 10-in. shell roadway	.60	.99
100 sq.ft. std. cement sidewalks	.16	.12
2 M ft. b.m. lumber left in place except sheet piling	30.00	35.00
Extended totals	$186,549	$193,199

INTERCEPTING SEWER, MILWAUKEE, WIS.

Bids received by the Sewerage Commission for Kinnickinnic River Intercepting Sewer, Sect. No. 1 from (A) Wisconsin Tunnel and Construction Co.; (B) James Ferry & Sons; (C) George E. Zimmerman; James Kennedy, $288,465; Fussel-McReynolds Co., $290,832; J. H. McKnight Construction Co., $305,169; J. Hanreddy, $322,152. The item bids of the 3 lowest bidders were as follows:

	A	B	C
1 regulating and by-pass chamber (lump sum)	$6,573.00	$12,000.00	$10,000.00
3,079 lin.ft. combined 48-in. c.i. and 6x4-ft. concrete sewer	53.00	59.80	54.00
2,122 lin.ft. 60-in. concrete sewer (in open cutting)	30.00	20.00	29.00
52 lin.ft. 54-in. reinforced concrete sewer	50.00	45.00	40.00
106 vert. ft. drop manholes	10.00	10.00	8.00
226 vert. ft. standard manholes	7.00	7.00	6.00
15 c.-i. manhole frames and covers	15.00	15.00	15.00
67,200 lin.ft. piles in place	.30	.30	.45
150,800 ft. b.m. plank foundation	30.00	30.00	28.00
56,000 ft. b.m. timber caps	40.00	40.00	30.00
5,253 lin.ft. underdrain	.30	.25	.40
Extended totals	$267,386	$272,008	$280,556

TRADE PUBLICATIONS

Automobile Trailers. Simplex Short-Turn Gear Co., Anderson, Ind. Catalog. Pp. 16; 6x9 in. This shows different models of the short-turn trailers made by this company.

Concrete Mixers. Cameron Schroth Co., Rush and N. Water St., Chicago, Ill. Catalog. Pp. 20; 5x7½ in. This describes concrete mixers made by this company, known as the "Whirlpool."

Electric Hoists. Sprague Electric Works, 527 W. 34th St., New York. Bulletin No. 48,906. Pp. 32; 8x10½ in. This illustrates and describes uses for ½-ton and 1-ton hoists.

"National" Matheson Joint Pipe. National Tube Co., Pittsburgh, Penn. Pamphlet. Pp. 72; 8x10 in. This is the third edition of this pamphlet, which has been revised and enlarged, and contains very fine reproductions of photographs, showing actual installations.

One Century in Business. Peter A. Frasse & Co., Inc., 417-421 Canal St., New York. This is an Anniversary Booklet, commemorating the one hundred years the company has been in business. It contains very fine pictures of the founder and the past and present officers of the company and an illustrations of the new electric steel works in Hartford, Conn.

Pilpe Line Excavators. Pawling & Harnischfeger Co., Milwaukee, Wis. Bulletin No. IX. Pp. 20; 6x9 in. This describes wheel-type excavators for cutting trenches from 20 in. wide and 4½ ft. deep to 28 in. wide and 7½ ft. deep.

SEWAGE DISPOSAL PLANT, GREENWICH, CONN.

Bids received by Joint Sewage Commission for sewage disposal plant for borough from (A) Suburban Engineering Co., 15 West 38th St., New York; (B) Averill-Mathews, Essex Bldg., Newark, N. J.; (C) Carrington Construction Co., Jersey City. The item bids were as follows:

	A	B	C
Imhoff tanks, 8 sections	$37,500.00	$41,497.00	$40,500.00
Imhoff tanks per added unit-2	4,430.00	4,294.00	4,600.00
Brick wall	6,840.00	5,030.00	6,490.00
Pumping station	13,300.00	14,979.00	19,500.00
Concrete per yard	9.00	12.00	8.00
Sludge beds	1,085.00	1,200.00	1,900.00
Piling per foot	.60	.90	.35
Reinforcing per lb	.05¾	.06	.05
Rock per yard	7.50	3.50	3.00
Lumber foundation M b.m.	60.00	55.00	50.00
Extended totals	$67,662	$71,365	$77,651

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.

Route No. 18, 180th St. Yard

Bids received by Public Service Commission, 120 Broadway, for 180th St. Yard, Route No. 18, part of White Plains Road Rapid Transit R.R. from (A) THOMAS J. BUCKLEY CONSTRUCTION CO. (awarded contract); (B) Rogers & Hagerty, Inc.; (C) Flick & Manuel Construction Co., Inc.; Oscar Daniels Co., $321,630; Thomas Dwyer, $346,312; S. M. De Pasquale, $348,078; L. J. Moran, $356,715; Degnon Contracting Co., $363,659; Kaufman & Garcey, $385,544; T. A. Gillespie Co., $403,240; Thomas A. Brown, $476,072. The item bids of the 3 lowest bidders were as follows:

	A	B	C
10,600 cu.yd. earth excavation above mean high water	$0.65	$3.75	$2.00
180,000 cu.yd. railroad embankment in place	.42	.40	.62
2,500 cu.yd. top soil for railroad embankment	1.50	1.50	.85
Removing trees, etc., from 180th st. yd	1,500.00	200.00	100.00
16,500 cu.yd. concrete masonry in place	5.90	8.00	7.10
8,000 sq.yd. tooling of concrete surfaces	1.00	.70	1.15
20 cu.yd. brick masonry in place	25.00	15.00	19.00
10 cu.yd. removal of old masonry	20.00	20.00	4.00
5,000 lin.ft. timber piles in place	.75	.35	.45
2 M ft. b.m. timber foundations	100.00	60.00	30.00
5,000 cu.yd. broken stone in place	2.00	.05	1.75
800 sq.yd. 1-ply waterproofing	.75	.30	.35
100 sq.yd. 3-ply waterproofing	1.50	1.00	1.15
8,500 sq.yd. waterproofing without fabric	.60	.20	.20
1,100 lin.ft. 4-in. vitrified pipe	.30	.40	.45
40 tons steel beams and shapes	90.00	80.00	80.00
360 tons steel rods and bars	82.00	88.00	73.00
2 tons miscellaneous iron castings	100.00	100.00	75.00
1,000 lb. special wire forms	.15	.10	.25
2,650 lin.ft. w.-i. pipe railing	.80	.80	.75
100 sq.yd. street surface restored	2.00	1.50	.75
50 sq.yd. park surface restored	3.00	1.00	.75
400 bolleana poplar trees	3.00	2.00	3.00
2,650 California privet hedge	.25	.10	.10
220 tons c.-i. sewer pipe	75.00	1.00	28.00
10 tons c.-i. sewer pipe special	100.00	1.00	79.00
Extended totals	$269,222	$297,195	$315,840

BRIDGE, NASHVILLE, TENN.

Bids received by Davidson County Commissioners for bridge over Cumberland River at Hydes Ferry from (A) GOULD CONTRACTING CO. (awarded contract); (B) Toledo Bridge and Crane Co.; (C) Foster & Creighton Co.; Walter Rae, $282,850; Pennsylvania Steel Co., $252,267; Nashville Bridge Co., $266,233. The item bids of the 3 lowest bidders were as follows:

	A	B	C
4,650 lin.ft. concrete piles	$1.40	$1.41	$1.41
1,240 cu.yd. stone masonry	12.00	17.93	17.93
935 cu.yd. Class B concrete	7.25	10.15	10.15
1,920 cu.yd. Class A concrete	13.00	13.25	13.25
1,450 tons structural steel	106.00	107.20	110.91
135 tons reinforcing steel	80.00	64.50	64.50
1,750 lin.ft. hand rail	2.50	3.10	3.07
2,770 sq.yd. brick paving	2.25	3.02	3.02
Extended totals	$228,236	$241,657	$246,984

Portable Direct Reading Bond Testers. Roller-Smith Co., 233 Broadway, New York. Bulletin No. 200. Pp. 4; 6x9 in. Illustrated. Describes apparatus for testing conductivity of electric-railway track joints.

An Elevator Safety Code to cover the construction and operation of building elevators has been prepared by the Pennsylvania State Industrial Board and was effective July 1. By the terms of the code every elevator constructed after July 1 may be built only after two sets of plans and specifications have been submitted to the Department of Labor and Industry, approved, and a permit issued. Passenger elevators must be of electric-drum, electric-traction, electric automatic push button hydraulic-plunger, horizontal-cylinder or vertical-cylinder types. No passenger elevator may be operated by means of belts or chains, friction gearing or clutch mechanism. Elevators must not be built in any thoroughfare where it will be necessary to pass through the shaft. The lifting capacity of passenger lifts must be 80 lb. per sq.ft. and no machine may be operated at more than 600 ft. per sec.

Proposed Extension of Railways in New Brunswick as published by the bureau of Foreign and Domestic Commerce—The Legislature of New Brunswick has just passed a bill providing for the construction of two extensions of the St. John Valley Ry. This railway is now in operation by the Government for a distance of about 120 mi., between Centerville, a town close to the Maine boundary, and Gagetown, a point about 25 mi. south of Fredericton, the capital, through which the road passes. One extension that is to be completed some time in the early part of 1917 runs from Gagetown about 45 mi. southwest to Westfield, where connection will be made with the Canadian Pacific Ry. into the City of St. John, the metropolis of the Province. [The contract for this portion has just been awarded to the Nova Scotia Contracting Co., of Halifax, Nova Scotia.] A later extension provided for in this bill is a line running north from Centerville to Andover, a distance of about 20 mi., the road to be almost parallel with the eastern boundary of Maine, and about 8 mi. east thereof.

Construction News

PRICES AND THE BUSINESS OUTLOOK

Business in general during the month of July continues in undiminished volume and prices on all engineering materials are holding exceptionally firm and in some cases it is difficult to place orders at the figures now prevailing. In a few instances, prices have shown an advance, due principally to the fact that labor conditions are so unsettled and freight conditions so complex.

On July 12, the Department of Commerce issued a bulletin covering the fiscal year's trade ending June, which showed that the total exports amounted to $4,345,000,000 and the imports $2,280,000,000, the total foreign trade aggregating $6,525,000,000. From these figures it is estimated that the exports are $1,577,000,000, or 57% larger than in the preceding year, and $1,981,000,000 or 83% larger than the year ending 1913-14. Moreover, the exports amount to about double the imports and show figures never approached before in the history of the country. The result of such phenomenal trade is principally due to the European war, and from the list showing the different totals, it is evident that the demand created for munitions of war and food supplies was the principal stimulus that brought about this result.

Prices on all steel products remain firm and show no change or tendency to move during the month. Reports from manufacturers prove that business is flowing in at the usual ebb with little sign of easing up. The only significant drop in the quotations published in this section is that on standard pipe, which shows a decline of practically $10 per ton. This came about as the price in spelter lowered, which naturally reflected lower quotations on galvanized material.

During the month the Bethlehem Steel Co. announced a very extensive construction program which will involve a total expenditure of over $70,000,000. In general, the work will comprise twelve new blast furnaces, at least one entirely new steel works, additions to steel-making capacity, finishing mills, including as well by-product coke plants, enlargement to shipyards, and better handling facilities. At Sparrows Point, Md., the largest improvements will be made, which are estimated to cost in the neighborhood of $30,000,000.

The advanced price on expanded metal lath was brought about by diminished stocks, and in order to meet the present demands, manufacturers are somewhat overtaxed, and were forced to increase the rate. On cement the market is firmer, due to the fact that the shortage of labor is so imminent. At the mills today, ordinary common labor is receiving $3.40 per day. In New York, sellers of gravel are well booked with orders far in advance and local conditions have brought out such a demand that prices are very steady.

Manufacturers of railway ties have been forced to adjust their prices by an advance of 2 cents because of the high cost of transportation by water and even at the present rate do not appear anxious to accept business at these new figures. The price on vitrified sewer pipe has advanced 1% in New York, principally because of the usual increase in summer business. Manufacturers are now getting together with an effort to submit a new net pricelist, but up to our going to press no definite action has taken place.

Less interest is shown in the metal market this month than in previous ones. Prices on all raw materials have receded, and even at the prevailing figures domestic business is light. Dealers have no cause to complain, however, as foreign business is being contracted for as usual.

Following is a list of contracts awarded, published by the F. W. Dodge Co., throughout the States of New England, New York, New Jersey, Pennsylvania, Maryland, Delaware, District of Columbia, Virginia, Ohio, West Virginia, Illinois, Indiana, Iowa, Wisconsin, Michigan, Minnesota, North and South Dakota and portions of Missouri and eastern Kansas:

January to Aug. 1, 1916	$711,005,246
January to Aug. 1, 1915	508,233,600
January to Aug. 1, 1914	454,579,300
January to Aug. 1, 1913	545,067,500
January to Aug. 1, 1912	482,577,500
January to Aug. 1, 1911	477,227,313
January to Aug. 1, 1910	526,425,460

Contracts awarded from New York State and northern New Jersey:

January to Aug. 1, 1916	$104,137,500
January to Aug. 1, 1915	87,661,000
January to Aug. 1, 1914	76,413,500
January to Aug. 1, 1913	181,254,500
January to Aug. 1, 1912	146,625,500
January to Aug. 1, 1911	143,380,500
January to Aug. 1, 1910	165,524,500

These figures show that throughout the territory covered there has been a gain for the past seven months of about $203,000,000 over 1915 and $166,000,000 over the best nearest year, which was 1913. In the local territory of New York State and northern New Jersey there has been a gain of about $16,500,000 over 1915 and is the best year since 1913, the years from 1910 to 1913 being larger than the present one. These figures compare very favorably with those for the first six months, which ran $183,000,000 over a year ago at that time for the larger territory, and were practically the same for New York and New Jersey. The larger gain seems to have been in the smaller territory, which shows about $29,000,000 more contracts awarded in August of this year than in July. From the larger territory, these figures show that contracts amounting to $114,421,660 were let during the month of August this year, and in New York State and northern New Jersey contracts were let for $29,215,000.

IRON AND STEEL

Track Supplies—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	Pittsburgh	Chicago	St. Louis	San Francisco
Standard railroad spikes	$2.65@2.75	$3.25	$3.35	$4.20
Track bolts	3.25@3.50	4.05	Premium	4.75
Standard section angle bars	2.00	....	Premium	2.55@2.65

Pig Iron—Below are the present quotations, with a comparison of a month and a year ago:

	Aug. 3, 1916	One Month Ago	One Year Ago
CINCINNATI			
No. 2 Southern foundry	$16.90@17.90	$16.90@17.90	$13.00@13.50
No. 2 Northern foundry	19.76@20.26	19.76@20.26	14.25@14.75
NEW YORK			
No. 2X Northern foundry	19.75@20.25	19.75@20.25	14.25@14.50
No. 2 plain Northern foundry	19.50@20.00	19.50@20.00	13.75@14.00
No. 2 Southern foundry†	19.50@20.00	19.50@20.00	14.25
BIRMINGHAM			
No. 2 Southern foundry	14.00	14.00	10.00@10.25
CHICAGO			
No. 2 Northern foundry	19.00	19.00	13.00@13.50
PITTSBURGH			
Bessemer iron*	21.00	21.95	15.20
Basic iron*	18.00	18.95	13.95

*These prices include the freight charge from the valley to the Pittsburgh district. †Delivered tidewater, New York.

Structural Material—The following are the base prices f.o.b. mill, Pittsburgh, together with the quotations per 100 lb. from warehouses at the places named:

	Pittsburgh	St. Louis	New York	Chicago	San Francisco
Beams, 3 to 15 in.	$2.50@2.75	$3.15	$3.25	$3.10	$4.25
Channels, 3 to 15 in.	2.50@2.75	3.15	3.25	3.10	4.25
Angles, 3 to 6 in., ¼ in. thick	2.50@2.75	3.15	3.25	3.10	4.25
Tees, 3 in. and larger	2.50@2.75	3.15	3.30	3.10	4.25
Plates	2.90@3.00	3.55	4.00	3.50	4.75

Extras on other shapes and sizes in cents per lb. are as follows:

I-beams over 15 in.	.10
H-beams over 18 in.	.10
Angles over 6 in., on one or both legs	.10
Angles, 3 in. on one or both legs less than ¼ in. thick	.70
Tees, structural sizes (except elevator, handrail, car truck and conductor rail)	.05
Channels and tees, under 3 in. wide	.20 to .80
Handrail tees	.75
Cutting to lengths, under 3 ft. to 2 ft. inclusive	.25
Cutting to lengths, under 2 ft. to 1 ft. inclusive	.50
Cutting to lengths, under 1 ft.	1.55

No charge is made for cutting to lengths 3 ft. and over.

Steel Rails—The following quotations are per 100 lb. f.o.b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh Aug. 3, 1916	Chicago Aug. 3, 1916
Standard bessemer rails	$33.00	$33.00
Standard openhearth rails	35.00	35.00
Light rails, 8 to 10 lb.	50.00	43.00
Light rails, 12 to 14 lb.	49.00	42.00
Light rails, 25 to 45 lb.	47.00	40.00

Old Material—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis and vicinity, the quotations are per net ton and cover delivery at the buyer's works, including frenght transfer charges:

	New York	
	Aug. 3, 1916	One Month Ago
Heavy melting steel scrap	$12.00@12.25	$11.75@12.25
No. 1 railroad wrought	18.00@18.50	18.00@18.50
Stove plate	12.00@12.25	12.00@12.50
No. 1 machinery cast	16.00@16.25	16.50@17.00
Machine shop turnings	4.50@ 5.00	6.25@ 6.50
Cast borings	7.50@ 7.75	8.00@ 8.25
Railroad malleable cast	12.25	12.25@12.75

	Chicago	
	Aug. 3, 1916	One Month Ago
No. 1 railroad wrought	$15.25@15.75	$14.75@15.25
Stove plate	9.25@ 9.75	9.25@ 9.75
No. 1 machinery cast	11.50@12.00	11.50@12.00
Machine shop turnings	5.50@ 6.00	5.50@ 6.00
Cast borings	6.00@ 6.50	5.50@ 6.00
Railroad malleable cast	11.25@11.75	11.50@11.75

	St. Louis	
	Aug. 3, 1916	One Month Ago
Heavy melting steel scrap	$14.50@15.00*	$14.50@15.00
No. 1 railroad wrought	15.00@15.50†	15.00@15.50
Stove plate	7.50@ 8.00†	8.00@ 8.50
No. 1 machinery cast	10.25@10.75†	11.50@12.00
Machine shop turnings	6.25@ 6.75†	5.50@ 6.00
Cast borings	5.75@ 6.25†	7.50@ 8.00
Railroad malleable cast	10.50@11.00†	11.00@11.50

*Gross ton. †Per net ton.

Cast-Iron Pipe—The following are prices per net ton for carload lots:

	New York	Birmingham	Chicago	St. Louis	San Francisco
4 in.	$34.00	$29.00	$33.50	$34.00	$39.00
6 in. and over	31.00	26.00	30.50	31.00	36.00

Gas pipe in 16-ft. lengths are $1 per ton extra.

Bars, Concrete Reinforcing—The following quotations are per 100 lb.:

In.	Mill Shipment, F.o.b. Pittsburgh	Warehouse New York Aug. 3, 1916	Warehouse St. Louis	Warehouse Chicago
¾ and larger	$2.50	$3.25	$3.24	$3.10
⅝	2.55	3.35	3.29	3.15
½	2.60	3 40	3.34	3.20
⅜	2.75	3.65	3.49	3.35
¼	3.00	4.00	3.74	3.60

Steel Sheet Piling—The following price is base per 100 lb. f.o.b. Pittsburgh, with a comparison of a month and a year ago:

Aug. 3, 1916	One Month Ago	One Year Ago
$2.50	$2.50	$1.55@1.60

Nails—The following quotations are per keg from warehouse:

	New York	St. Louis	Chicago
Wire	$3.15	$2.95	$2.85
Cut	3.15	2.85	3:05

Pipe—The following table shows the comparison in discounts, with the net prices in cents per foot for carload lots f.o.b. mill:

	Black Aug. 3, 1916	Black One Year Ago	Galvanized Aug. 3, 1916	Galvanized One Year Ago
¾ to 2½ in. steel butt welded	70%	79%	55½%	57½%
3 to 6 in. steel lap welded	68%	78%	53½%	56½%
7 to 12 in. steel lap welded	65%	76%	49½%	54½%
Diameter, In.				
¾	3.45	2.42	5.12	4.89
1	5.10	3.57	7.57	7.23
1½	8.25	5.78	12.24	11.69
2	11.10	7 77	16.47	15.73
2½	17.55	12.29	26.03	24.86
3	24.48	16.83	35.57	33.28
4	34.88	23.98	50.69	47 42
5	47.36	32.56	68.82	64.38
6	61.44	42.24	89.28	83.52
7	83.30	57.12	$1.202	$1.083
8	87.50	60.00	1.454	1.138
9	$1.208	82.80	1.742	1 57
10	1.442	98.88	2.081	1.875
11	1.621	$1.111	2.338	2.107
12	1.775	1.217	2.56	2.307

From warehouses the following discounts hold:

	New York Black	New York Galvanized	Chicago Black	Chicago Galvanized
2½ to 6 in. steel lap welded	61%	41%	63.8%	48.8%
¾ to 3 in. steel butt welded	64%	47%	65.8%	50.8%
7 to 12 in. steel lap welded	55%	29%	60.8%	44.8%

Malleable fittings, Class B and C, from New York stock, sell at 30 and 5% from list price. Cast iron, standard size, 55%.

Sheets—Quotations are in cents per pound in various cities from warehouse, also the base quotation from mill:

Blue Annealed	Large Lots, Pittsburgh	St. Louis	Chicago	San Francisco	New York
No. 10	3.00@3.25	3.45	3.25	5.00	4.25
No. 12	3 05@3.30	3.50	3.30	5.05	4.30
No. 14	3.10@3.35	3 55	3.35	5.10	4 35
Black					
Nos. 18 and 20	2.70@2.80	3.10	3.00	4.75	3.45
Nos. 22 and 24	2.75@2.85	3.15	3.05	4.80	3.50
No. 26	2.80@2.90	3.20	3.10	4.85	3.55
No. 27	2.85@2.95	3 25	3.15	4.90	3.60
No. 28	2.90@3.00	3.30	3.20	4.95	3.65
Galvanized					
No. 10	3.25@3.35	5.30	4.70	5.34	...
No. 12	3.35@3.45	5.30	4.70	5.39	4.50
No. 14	3.35@3.45	5.30	4.70	5.39	4.50
Nos. 18 and 20	3.60@3.70	5.30	4.90	5.73	4.80
Nos. 22 and 24	3.70@3.80	5.40	5.05	5.92	4.55
No. 26	3.85@3 95	5.40	5.20	6.07	...
No. 27	4.10@4.20	5.40	5.35	6.20	...
No. 28	4.25@4.35	5.40	5.50	6.41	5.00

Chain—Price per 100 lb.:

In.	Chicago	New York July 6, 1916	New York One Year Ago	San Francisco
3/16	$9.40	$10.10	$7.50	$14.00
¼	6.85	7 55	4.95	10.25
5/16	5.85	6.55	3.95	9.25
⅜	5.00	6.00	3.40	7.90
7/16	5 15	5.80	3.20	7.75
½ and 9/16	5.00	5.60	3.00	7.55
⅝ and 11/16	4.90	5.50	2.90	7.25
¾ and 13/16	4.80	5.40	2.80	7.20
⅞ and 15/16	...	5.30	2.70	7.20
1 to 1¼	...	5.20	2.60	7 20

EXTRAS TO ABOVE LIST PER 100 LB.

	For BB	For BBB
3/16 in. and ¼ in.	$1.50	$2.00
5/16 in. and larger	1.25	1.75

Rivets—Price per 100 lb.:

	Structural Mill, Pittsburgh	Warehouse New York	Warehouse Chicago	Warehouse St. Louis
¾ in. and larger	$4.00	$5.25	$3.50	$3.55
	Cone Head Boiler			
¾ in. and larger	4.10	5.35	3.60	3.65
⅝ and 11/16	4.25	5.50	3.75	3.80
½ and 9/16	4.60	5.85	4.10	4.15

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take anextra of 25c.

Triangle Mesh—Price per 100 sq.ft. for 4 in-mesh in carload lots:

Style No.	Cross-Sec. Area per Ft. Width	Plain New York	Plain St. Louis	Plain Chicago	Plain San Francisco	Galvanized New York	Galvanized St. Louis	Galvanized San Francisco
4	0.102	$1.44	$1.54	$1.728	$1.91	$1.66	$1.76	$2.12
5	0.077	1.14	1.22	1.361	1.49	1.31	1.39	1.66
6	0.058	.90	.96	1.082	1 21	1.03	1.10	1.34
7	0.041	.70	.75	.847	.93	.81	.86	1.04
23	0.170	2.41	2.58	2.890	3 17	2.77	2.94	3.53
24	0.142	2.08	2.23	2.545	2.72	2.39	2.54	3.03
25	0.124	1.84	1.97	2.204	2.41	2.12	2.25	2.69
26	0.110	1.68	1.80	2.008	2.21	1.93	2.05	2.46
27	0.085	1.37	1.47	1.650	1.81	1.58	1.68	2.01
28	0.066	1.14	1.22	1.324	1.49	1.31	1.39	1.66
29	0 049	.94	1.01	.972	1.25	1.08	1.15	1.39
31	0.261	3.55	3.80	5.245	4.70	4.08	4.33	5.23
32	0.225	3.08	3.29	4 726	4.08	3.54	3.76	4.54
33	0.196	2.75	2.94	3.484	3.61	3.16	3.35	4.02
34	0 140	2.11	2.26	2.562	2.78	2.43	2.58	3.09
35	0.109	1.68	1.80	2.001	2.21	1.93	2.05	2 46
36	0.075	1.24	1.33	1 342	1.62	1.42	1.51	1.81
38	0.380	5.06	5.42	6.067	6.67	5.81	6.17	7.42
39	0 325	4.36	4.67	5.824	5.75	5.01	5.32	6.40
40	0.283	3.82	4.09	5.462	5.02	4.39	4.66	5.59
41	0.208	2.91	3.12	3 533	3.86	3.35	3.56	4.30
42	0.151	2.21	2.37	2.654	2.93	2.54	2.70	3.27
43	0 101	1.57	1.68	1.992	2.09	1.81	1.92	2.32

Less than carload lots this material is about 10% higher.

Wire Rope—Discounts from list price on bright and galvanized are as follows:

	New York	St. Louis	Chicago	San Francisco
Galvanized	25—2½%	25—2½%	25—2½%	22½%
Bright	35—2½%	40—2½%	30—2½%	32½%

At this rate the net prices in New York for galvanized, 7 wires to strand, are as follows per 100 lb.:

Diameter, In.		Diameter, In.	
½	$4.40	1¼	$18.30
⅝	5.90	1⅜	20.80
¾	6.60	1½	25.60
⅞	9.50	1⅝	27.80
1	11.00	1¾	32.20

Expanded Metal Lath—Prices per 100 yd. for painted are as follows:

Gage	Weight	Carload New York	Carload Chicago	Carload St. Louis	Carload San Francisco
27	233	$17.00	$16.50	$18.00	$16.00
26	250	18.00	17.50	19 00	17.25
25	300	19.00	18.50	....	18.75
24	340	20.00	19.50	21.00	20.00
22	450	23.00	22.50	....	23.50

About 10% additional for smaller quantities. For galvanized, New York, add $7, and $5 for tuncan. For galvanized, San Francisco, add $10, and $4.50 for tuncan.

Freight Rates—On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

Baltimore	15.40	Minneapolis	32.90
Boston	18.90	New Orleans	30 00
Buffalo	11.60	New York	16.90
Chicago	18 90	Pacific Coast (all rail)	73.90
Cincinnati	15.80	Philadelphia	15.90
Cleveland	10.50	St. Louis	23.60
Denver	68.60	St. Paul	32.90
Kansas City	43.60	Omaha	43.60
Birmingham	45.00		

CEMENT, BRICK AND STONE

Portland Cement—These prices are for barrels in carload lots in cotton bags; 10c. allowed for return of each bag:

	Aug. 3, 1916	One Month Ago	One Year Ago
New York	$1.72	$1.72	$1.43
Jersey City	1.66	1.66	1.24
Boston	1.92	1.92	1.66
Chicago	1 81	1.81	1.51
Pittsburgh	1.81	1.81	1.45
Cleveland	1.94	1.94	1 60
Detroit	1.90	1.90	1.60
Indianapolis	1 94	1.94	...
Toledo	1.94	1.94	...
Milwaukee	1.93	1.93	...
Minneapolis	2.08	2.08	1.77
Duluth	1.96	1.96	1.77
Peoria	1 89	1.89	...
Cedar Rapids	2.00	2.00	...
Davenport	1.90	1.90	...
St. Louis	1.85	1.86	...
San Francisco	2.30	2.30	...

Curbing—Prices per linear foot are as follows:

New York	5x16	$0.40
	5x20	.45
Chicago	6x18	.45
St. Louis	5x16	.75
San Francisco	5x16	.75
	5x20	.90

Crushed Stone—Price for cargo or carload lots is as follows:

	1½ In.	¾ In.	
New York	$0.85@0.90	$0.95@1.00	cu.yd.
Chicago	1.10	1.10	cu.yd.
St. Louis	1.00	1.00	cu.yd.
San Francisco	1.00	1.00	cu.yd.

Brick—The price per 1,000 in cargo or carload lots is as follows:

	Common	Paving
New York	$7.75@8 25	block $25.50 brick 15.25
Chicago	6.00	12.00
St. Louis, salmon	6.00	
St. Louis, selected	9.00	block 16.50
San Francisco	10.00	block 30.00

Sand and Gravel—Price for cargo or carload lots is as follows:

	Gravel			
	Paving	1½ In.	¾ In.	Sand
New York	$1.25	$0.90	$1.00	$0.50 per cu.yd.
Chicago	....	.85	.85	.85 per cu.yd.
St. Louis	....	.70	.70	.60 per cu.yd.
San Francisco	....	1.00	1.00	.90 per cu yd.

Paving Stone—

New York	Manhattan	$2.40 sq yd.
	Other boroughs	2.20 sq yd.
Chicago	About 4x8x5 dressed	2.15 sq.yd.
	About 4x8x5 common	1.65 sq.yd.
San Francisco	Basalt block 4x7x8	55.00 per M

Flagging—

New York	Bronx	$0 17 sq.ft.
	Manhattan	.17 sq.ft.
	Queens ..5 ft. square	.18 sq.ft.
Chicago	18 in. wide	.60 lin.ft.

MISCELLANEOUS

Railway Ties—For fair-size orders, the following prices per tie hold:

	Material	7 In. by 9 In. by 8 ft. 6 In.	6 In. by 8 In. by 8 Ft.
New York	Yellow Pine	$0.97	$0 82
St. Louis	White Oak	.72	.61
Chicago	White Oak	.90	.80
San Francisco	Long Fir	.75	.51
		creos. 1.34	creos. .90

Lumber—Price per M in carload lots:

Square Edge and Sound Green

Southern Pine—New York:

	20 Ft. and Under	22-24 Ft.	26 Ft.	28 Ft.	30 Ft.	32 Ft.
3x 4 to 8x 8	$26.50	$27.50	$28.50	$28.50	$29.50	$29.50
3x10 to 10x10	27.50	28.50	29.50	29.50	30.50	30.50
3x12 to 12x12	30.50	31.50	32.50	32 50	33.50	33.50
3x14 to 6x14	32.50	33.50	34.50	34.50	35.50	35.50
7x14 to 14x14	32.50	33.50	34.50	34.50	35.50	35.50
3x16 to 6x16	34.50	35 50	37.50	37.50	39.50	38.50
7x16 to 16x16	34.50	35.50	37.50	37.50	39.50	38.50
3x18 to 8x18	36.50	37.50	39.50	39.50	41.50	41.50
8x18 to 18x18	36.50	37.50	39.50	39 50	41.50	41.50
4x20 to 20x20	39.00	40.00	42.00	42.00	44.00	44.00

Southern Pine—St. Louis:

	20 Ft. and Under	22-24 Ft.	26 Ft.	28 Ft.	30 Ft.	32 Ft.
3x 4 to 8x 8	$20.70	$21.75	$22.75	$22.75	$23.75	$23.75
3x10 to 10x10	21 75	22.75	23.75	23.75	24.75	24.75
3x12 to 12x12	24.75	25.75	26.75	26.75	27.75	27.75
3x14 to 6x14	26.75	27.75	28.75	28.75	29.75	29.75
7x14 to 14x14	26.75	47.75	28.75	28.75	29 75	29.75
3x16 to 6x16	28.75	29.75	31.75	31.75	33.75	32.75
7x16 to 16x16	28.75	29.75	31.75	31.75	33.75	32.75
3x18 to 8x18	30 75	31.75	33.75	33.75	35.75	35.75
8x18 to 18x18	30.75	31.75	33.75	33.75	35.75	34.75
4x20 to 20x20	33.25	34.25	36.25	38.25	38.25	38.25

No. 1 Common Rough Douglas Fir—San Francisco:

Size in Inches	15 Ft and Under	16 to 24 Ft.	25 to 32 Ft.
3 and 4x 4	$14.00	$15.05	$15.75
3 and 4x6 and 8	14.00	14.35	15.05
6x6 to 8x8	14.35	15.05	16.45
3 and 4x10	14.00	15.05	15.75
6 and 8x10	14.70	15 40	15.40
10x10	14.70	14.70	16.10
3 and 4x12	14.00	15.05	15.75
6 and 8x12	15.05	15.75	15 75
10 and 12x12	14.70	14.70	16.10
3 and 4x14	14.70	16.10	16.80
6 and 8x14	15.75	16.45	16.45
7 and 9x14	16.45	17.15	17.15
10 and 12x14	15.40	15.40	16.80
14x14	14 70	14.70	16.10
3 and 4x16	15.40	17.15	17.85
6 and 8x16	16.80	17.50	17.50
7 and 9x16	17.50	18.20	18.20
10 and 12x16	16.10	16.10	17.50
14 and 16x16	14.70	14.70	16.10
3 and 4x18	16.10	18.20	19.60
6 and 8x18	17.15	18.90	18.90
7 and 9x18	17.85	19.60	19.60
10 and 12x18	16.80	16.80	18.20
14 and 16x18	15.40	15.40	16.80
18x18	16.10	16.10	17.50
3 and 4x20	15.40	19.25	20.65
6 and 8x20	18.55	20.30	20.30
10 and 12x20	17.50	17.50	18.90
14 and 16x20	16.10	16.10	17 50
18 and 20x20	16.80	16.80	18.20

Over 32 ft—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12x12 and under; for sizes over 12x12 add $2. For merchantable add $2 to sizes 10x10 and under. For prime add $2 to the price of merchantable for all sizes.

Clay Drain Tile—The following prices are per 1,000 lin.ft.:

Size, In.	New York	St. Louis	Chicago	San Francisco
3	$22.50	$16.00	$15.00	$23.00
4	32.50	18 00	18.00	36.00
5	47.50	25.00	23.00	52.50
6	57.50	35.00	27.00	76.00
8	97.50	65.00	55.00	120.00

Sewer Pipe—The following prices are in cents per foot for carload lots:

	New York				
Size, In.	Aug. 3, 1916	One Year Ago	St. Louis	Chicago	San Francisco
3	7.25	4.50	....	5.50	6 00
4	7.25	4.50	....	5.50	8.00
5	12.00	7.20	....	8.80	10.00
6	12.00	7 20	8.25	8.80	12.00
8	16.50	9.90	13.50	12.10	18.00
10	24.00	14.40	18.00	17.30	27.00
12	30.00	18.00	24.50	22.00	33.75
15	40.50	24.30	35.00	29.70	....
18	57.00	34.20	52.50	41.80	67.50
20	67.50	40 50	70.00	49.50	87.50
22	90.00	54.00	84.00	66.00	$1.05
24	97.50	58.50	$1.00	71.50	1.25
27	$1.665	$1.26	1.30	$1.44	1.75
30	2 035	1.54	1.70	1.76	2.00
33	2.625	2.06	2.25	2.31	....
36	2.94	2.31	2.50	2.73	....

Hollow Tile—Hollow building tile price per block in cents:

	New York	Chicago	St. Louis	San Francisco
4x12x12 in.	.065	.064	.054	.07
6x12x12 in.	.091	.093	.066	.09½
8x12x12 in.	.11	.108	.09	.12
10x12x12 in.	.13	.127	.15	.15
12x12x12 in.	1625	.146	.18	.18

Fireproof partition blocks price per block in cents:

	New York	Chicago	St. Louis	San Francisco
2x12x12 in.	.046	.041	.024	..
3x12x12 in.	.046	.042	.036	.08
4x12x12 in.	.052	.045	.048	.08½
6x12x12 in.	.078	.061	.066	.11½
8x12x12 in	...	...	.085	.14

Above prices should be for more than carload lots. These quotations are f.o.b. factory near Perth Amboy.

Asphaltum—Price per ton in packages:

	Brand	
New York	Mexican	$19.50
Chicago	Mexican	21.50
Kansas City	Mexican	21.50
Denver	California	21.50
San Francisco	California	10.50

Flue Lining—Price per foot in cents for carload lots:

	New York	Chicago	St. Louis	San Francisco
4½x 8½ in.	9.80	10.00	11.00	15.00
4½x13 in.	12.60	14.00	15.00	22.50
7½x 7½ in.	11.20	....	....	....
8 x 8½ in.	12.60	14.00	14.00	20.00
8½x13 in.	18.20	18.00	18.00	27.50
8½x18 in	25.20	30.00	28.00	37.50
12 x16 in.	....	....	....	45.00
13 x13 in.	23.80	....	....	....
13 x18 in.	33.60	40.00	40.00	52.50
14 x16 in	....	....	....	47.50
16 x16 in.	....	....	....	67.50
18 x18 in.	56.00	50.00	60.00	....

Wood Block Paving—In carload lots:

Chicago	4 in. block 16 lb. treatment	$1.85 sq yd.
St. Louis	4 in. block 16 lb. treatment	1.46 sq.yd.

White and Red Lead, in cents per pound, sell as follows:

	Red		White
	Dry	In Oil	Dry and In Oil
100-lb keg	10 50	11.00	10 50
25- and 50-lb. kegs	10.75	11.25	10 75
12½-lb. keg	11.00	11.50	11.00
1- to 5-lb. cans	12 50	12.50	12 50

Linseed Oil—These prices are per gallon:

	New York		Cleveland		Chicago	
	Aug. 3, 1916	Three Months Ago	Aug. 3, 1916	Three Months Ago	Aug. 3, 1916	Three Months Ago
Raw in barrels	$0.71	$0.81	$0.73	$0.80	$0.71	$0.83
5-gal. cans	.81	.91	.83	.90	.81	.91

METALS

Miscellaneous Metals—The present quotations in cents per pound with a comparison of practically a month and a year ago are as follows:

	New York		
	Aug. 3, 1916	One Month Ago	One Year Ago
Copper, electrolytic (carload lots)	27.00	28 00	19.00
Tin	38.00	39.00	41.00
Lead	6.50	7.00	5.50
Spelter	11.50	11.87½	18.25

ST. LOUIS

Lead	6.37½	6.85	....
Spelter	11.37½	11.87½	..

Old Metals—In New York the following are the dealers' purchasing prices in cents per pound:

	Aug. 3, 1916	One Month Ago	One Year Ago
Copper, heavy and crucible	19.50	21.00	17.00
Copper, heavy and wire	18 50	20.00	16.62½
Copper, light and bottoms	15.50	17.00	14.50
Lead, tea	4.50	4.50	4.12½
Lead, heavy	5.00	5.00	4.87½
Brass, heavy	11.25	11.75	11.50
Brass, light	9.25	9.25	10.00
No. 1 yellow rod brass turnings	12.75	12.75	....
Zinc	7.50	8.00	14.00

RAILWAYS, STEAM AND ELECTRIC

Proposed Work

Massachusetts—Springfield St. Railway Co., Springfield, asked Council for permission to extend Carew St trolley line, 1 mi. R. W. Reynolds, Springfield, Mgr.

Massachusetts—Springfield St. Ry., Springfield, plans new tracks on Center St. R. W. Reynolds, Springfield, Gen. Mgr.

New Jersey—City, Jersey City, made plans for belt railway. F. Dunham, Engr. M. I. Fagan, City Clk.

New Jersey—Pennsylvania R.R. plans to extend line from Camden to Petty's Island. A. C. Shand, Philadelphia, Ch. Engr.

Pennsylvania—Huntington, Lewistown & Juniata Valley Traction Co., Huntingdon, plans extension to Cold Springs. F. B. Isenberg, Huntingdon, Gen. Mgr.

Pennsylvania—Valley Rys., Lemoyne, plans to double-track line from Wormleysburg to West Fairview Bridge, about 1 mi. A. J. Bentz, Lemoyne, Ch. Engr.

West Virginia—Wellsburg & Eastern Railroad Co. granted franchise to construct line along Buffalo Creek, Brooke County. Line will eventually be extended to Washington, Penn. W. L. Rohbock, Cleveland, Ch. Engr. Noted Apr. 27.

North Carolina—Toxaway Western Railway Co., incorporated with $75,000 capital stock, plans railway from Lake Toxaway to Sapphire, 4 mi. J. Meitz, Williamsport, Penn., and H. C. Jarvism, Ashville, Dir.

Tennessee—Wilson County, Lebanon, election Aug. 24 to vote on $150,000 bonds to aid Nashville & Eastern Ry. to build line from Nashville to Smithville. C. T. Edwards, Smithville, interested. Noted Apr. 13.

Kentucky—Paducah & Illinois Railroad Co. made surveys for entrance into Paducah. D. G. Thompson, Paducah, Engr.

Ohio, Akron—Canal Belt Railroad Co., Akron, plans line from Barttes to North St. Work includes 7,000 cu yd. earth excavation, 100,000 cu yd. embankment, 80-ft. tunnel and 1,100 ft. trestle. S. Rockwell, Jr., 1845 East 75th St., Cleveland, Engr.

Ohio—State Utilities Comn. granted Pittsburgh & Lake Erie R.R. permission to issue $6,000,000 capital stock for improvements in Youngstown. J. A. Atwood, Pittsburgh, Ch. Engr. Noted May 4.

Michigan—Detroit United Ry., Detroit, granted franchise by City Council to construct line on Hamilton Blvd. F. W. Brooks, Detroit, Gen. Mgr. Noted June 1.

Iowa—United Light and Railways Co., Grand Rapids, Mich., plans to spend about $250,000 to improve its facilities at Mason City. R. Schaddelee, Grand Rapids, Gen. Mgr.

Kansas—Arkansas Valley Interurban Railway Co., Wichita, granted franchise by City Council to extend line on 10 streets of city. C. D. Bell, Wichita, Ch. Engr. Noted May 11.

Missouri—Terminal R R. Association of St. Louis plans to spend about $1,000,000 for improvements. J. L. Burlingame, St. Louis, Gen. Mgr.

Texas—Houston & Brazos Valley R.R. plans to spend about $15,000 to improve line from Bryanmound to Anchor, also to Freeport dock terminal and Brazosport. W. A. Ranfle, Freeport, Ch. Engr.

Texas—San Antonio Traction Co. to rebuild tracks at Main Ave. and Houston St. E. E. Eysenbach, San Antonio, Gen. Mgr.

Texas—Southern Pacific Co. plans to extend terminal facilities and switching tracks in Beaumont. W. Hood, San Francisco, Ch. Engr.

Oklahoma—Oklahoma Railway Co. applied to Council, Blackwell, for franchise to construct line from smelter of American Metal Co. to business district, thence northeast to oil field. G. P. Knox, Oklahoma, Vice-Pres. and Gen. Mgr.

Oklahoma—Tulsa St. Ry., Tulsa, to spend about $50,000 for improvements and extensions. C. H. Bosler, Dayton, Gen. Mgr.

Utah—Bingham & Garfield Railway Co., Salt Lake City, plans to electrify line. H. C. Goodrich, Salt Lake City, Ch. Engr.

California—Martinez & Concord Interurban Railway Co. soon lets contract for grading line from Martinez to connection with Oakland, Antioch & Eastern R.R. at Government Ranch. J. B. Rogers, San Francisco, Ch. Engr. Noted July 20.

California—Great Western Improvement Co., San Francisco, acquired Glendale & Montrose Ry. and plans to improve and extend same, about 15 mi. W. J. Bohon, Gen. Mgr.

Bids In and Contracts Awarded

Connecticut—Connecticut Co. let contract double-tracking Jubilee and Dwight St., New Britain, to F. T. LEY CO., Springfield.

Pennsylvania—Pennsylvania R.R. let contract track work and grading at Northumberland to BROWN-KING CONSTRUCTION CO., Commercial Trust Bldg., Philadelphia, about $50,000. A. C. Shand, Philadelphia, Ch. Engr.

Virginia—Richmond, Fredericksburg & Potomac Railroad Co. let contract to depress tracks from Acca Sta. to Carey St. Rd. to EINSTON & CO., Richmond, about $500,000.

North Carolina—Seaboard Air Line Ry. let contract grading near Niagara to L. F. CHRISTIAN, Durham.

Mississippi—Yazoo & Mississippi Valley R.R. let contract grading several switch tracks to J. O. STRICKLIN, Yazoo City. A. H. Egan, Memphis, Tenn., Supt.

California—Indian Valley Railroad Co. let contract line from Keddie to Engels Mine, Plumas County, about 22 mi., to UTAH CONSTRUCTION CO., Ogden. Noted July 13.

California—Municipal Rys. of San Francisco, San Francisco, let contract track special work, Contract No. 82, to UNITED STATES STEEL PRODUCTS CO., San Francisco.

BRIDGES

Proposed Work

Mass., Westfield—Town making plans for bridge. J. L. Hyde, Town Engr.

R. I., Woonsocket—Bd. Aldermen receiving bids Aug. 15 for concrete retaining wall and rein-con. extension to arch bridge on Mill St. and over Peters River, Contract No. 1; rein.-con. bridge on Allen St. and over Lippitt Woolen Co. tail race, Contract No. 2. S. H. Mills, City Engr. Noted Mar. 13.

N. Y., Bennington—Town receiving bids Aug. 10 for bridge over Cayuga Creek. J. F. Drilling, Clk. A. B. Milvin, Attica, Engr. Noted July 6.

N. Y., Johnson—Erie R.R. made plans for bridge over tracks on Lester Ave., R. S. Parsons, 50 Church St., New York, Ch. Engr.

N. Y., Portageville—(Official)—Town Supt. Genesee Falls and Supt. Portage, Portageville, receiving bids Aug. 12 for bridge over Genesee River at Portageville. G. H. Nessell and H. S. Barber, Supts. Noted Mar. 9. (See adv. July 27 issue).

N. J., Flemington—Bd. Freeholders Hunterdon County plan new bridge on South Union St. Address Clk., Flemington.

N. J., Salem—Salem County receiving bids Aug. 7 for rein.-con. highway bridge over Oldmans Creek. H. B. Keasby and W. C. Cattrell, County Engrs.

Penn., Brooksville—Jefferson County plans arch bridge over Big Run, Henderson Township, about $15,000. Address County Clk., Brookville. F Arthur, Court House, Engr.

W. Va., Wheeling—County receiving bids Aug. 7 for bridge work. G. W. Steenrod, Wheeling, County Engr.

N. C., Charlotte—Southern Ry. to build new bridge on main line south of Charlotte. W H. Wells, Washington, D. C., Ch. Engr. M. W. and Struct.

N. C., Lincolnton—Lincoln County plans to rebuild bridges destroyed by floods, about $200,000. Address County Clk., Lincolnton.

N. C., Morganton—Burke County plans to rebuild bridges destroyed by floods. Address County Clk., Morganton.

N. C., Raleigh—City Comrs. receiving bids Aug. 7 for viaduct over tracks of Southern Ry. on West Martin St., concrete, 645-ft. long with earth fill approaches 200-ft. long. R. B. Seawall, City Engr. Noted Apr. 6.

Ga., Gainesville—County receiving bids Aug. 11 for steel bridge over Chattahoochee River. Address County Clk., Gainesville.

Fla., Miami—Dade County plans election in August to vote on $600,000 bonds for causeway over Biscayne Bay. Address County Clk., Miami.

Ala., Eufaula—Barbour County plans to rebuild 3 bridges destroyed by floods. Address County Clk., Clayton.

Ala., Heflin—A. H. Glasgow, Judge Probate, receiving bids Aug. 14 for steel bridge over Tallapoosa River.

Ala., Selma—Dallas County receiving bids Aug. 21 for 340-ft. steel bridge. W. O. Crisman, Engr.

Miss., Booneville—Prentiss County receiving bids Aug. 7 for bridge over Wolf Creek Canal. C. R. Lacy, Booneville, Clk.

Miss., Columbus—County receiving bids Aug. 7 for bridge work. B. A. Lincoln, Columbus, County Clk.

Miss., Holly Springs—Marshall County receiving bids Aug. 8 for 2 bridges. Address C. H. Wright, Holly Springs. Clk.

Miss., Quitman—Clarke County receiving bids Aug. 7 for bridge over Pachuta Creek. W. H. Foster, Quitman, Clk.

Tenn., Chattanooga—Hamilton County plans bridge over Little Soddy Creek. A. Crox, Chattanooga, Supt. Highway Comn.

Tenn., Jonesboro—(Official)—County receiving bids Aug. 14 for bridge over Watauga River, about $8,500. W. C. Leab, Jonesboro, Clk. Noted July 20.

Tenn., Marysville—Rd. Comrs. Blount County receiving bids Aug. 5 for rein.-con. bridge over Toole River at Little Ford. R. O. Gallagher, County Engr.

Tenn., Paris—Nashville, Chattanooga & St. Louis Ry. plans 2 bridges, viaduct and paving of streets to be raised. H. McDonald, Nashville, Ch. Engr.

Tenn., Trenton—Gibson County to build 5 steel bridges over Rutherford Canal and 2 over Big Creek Canal. Address County Clerk, Trenton.

Tenn., Waverly—Nashville, Chattanooga & St. Louis Ry. and city to build vidauct on Waverly McEwen Rd.

Ohio, Cleveland—County receiving bids Aug. 5 for bridge work per Report No. 3892. E. G. Krause, Cleveland, County Clk.

Ohio, Cleveland—Cuyahoga County soon lets contract for balustrades on high level bridge, about $80,000. W. A. Stinchcomb, County Engr.

Ohio, Dayton—County receiving bids Aug. 14 for Upper Miamisburg Bridge, about $60,000. V. C. Smith, Dayton, County Engr.

Ohio, Hamilton—County made plans for Somerville Bridge, concrete, about $17,500. F. M. Hammerle, Hamilton, County Engr.

Ohio, Warren—Trumbull County receiving bids Aug. 7 for substructure and superstructure South Pine St. Bridge. W. R. Harrington, Warren, Audr. R. E. Hempel, Engr.

Ohio, Youngstown—(Official)—H. B. Reinsayer, Asst. Engr., New York Central R.R., receives bids for bridge over railway tracks on East Federal St. and Himrod Ave. F. M. Lillie, City Engr. Noted July 20.

Ind., Crawfordsville—Montgomery County receiving bids Aug. 8 for 3 bridges. Address County Audr., Crawfordsville.

Ind., Decatur—Adams County making plans Jack Bridge, Monroe Township. T. Baltzell, Decatur, Audr. E. L. Macklin, Engr.

Ind., Indianapolis—Marion County receiving bids Aug. 11 for culverts, bridges and retaining wall. L. K. Fesler, Indianapolis, Audr.

Ind., Knox—County receiving bids Aug. 7 for bridge. C. W. Wenninger, Knox, Clk.

Ind., La Porte—La Porte County receiving bids Aug. 10 for bridge and abutments. F. A. Hausheer, La Porte, Audr.

Ind., Vernon—County receiving bids Aug. 7 for Brush Creek Bridge, Campbell Township. Address County Audr., Vernon.

Ind., Wabash—Wabash County plans bridge and approaches over Wabash River. Address County Clerk, Wabash.

Ill., Belleville—St. Clair County plans 35 bridges and culverts. Address Clk., Belleville.

Ill., Geneva—Kane County let contract bridge in Rutland Township to W. McLEAN, 444 Washington St., Elgin.

Iowa, Independence—City plans bridge over Wapsinicon River on Main St. R. W. Gearhardt, Engr.

Iowa, Missouri Valley—Harrison County plans 3 bridges, about $70,000. Address Clk., Logan.

Minn., Duluth—St. Louis County receiving bids Aug. 7 for 3 bridges. O. Halden, Duluth, Audr.

Minn., New Richland—Village receiving bids Aug. 15 for bridge. J. J. Spillane, Recdr.

Minn., Rochester—State Highway Comn., St. Paul, plans Bridges Nos. 1819 and 1839, Olmstead County about $6,000. L. D. Bailey, Rochester, Dist. Engr.

Kan., Beloit—Mitchell County passed resolutions for 2 bridges, about $10,000. Address County Clerk, Beloit.

Kan., Hardy—Comrs. Jewell and Republic Counties plan bridge over Republican River south of Hardy, about $15,000. Address County Clerk, Hardy.

Kan., Hiawatha—Brown County receiving bids Aug. 9 for 2 bridges. J. E. Mathewson, Hiawatha, Clk.

Kan., Hays—Ellis County plans bridge over Saline River at Overholser Crossing, about $4,000.

Kan., Leavenworth—Leavenworth County soon awards contracts for 48 concrete bridges.

Kan., Topeka—Shawnee County receiving bids Aug. 18 for Baltimore truss bridge over Soldier Creek, about $13,000. O. K. Swayze, Topeka, Clk. W. J. Arnold, Engr. Noted June 22.

Neb., Dakota City—(Official)—Drainage Dist. No. 2 receiving bids Aug. 19 for bridges across Elk Creek near Jackson and Pigeon Creek near Hubbard. Towl Engineering Co., 1122 City National Bldg., Omaha, Engr.

Mont., Red Lodge—Carbon County receiving bids Aug. 10 for 42-ft. steel bridge over Red Lodge Creek at George Robertson Ranch. J. E. Deegan, Red Lodge, Clk. and Recdr.

Mo., Kansas City—Bd. Pub. Wks. receiving bids Aug. 31 for 1,110-ft. temporary approach connecting with Allen Ave. Viaduct at Liberty and Wyoming St. Harrington, Howard & Ash, Orear Leslie Bldg., Engr.

Ark., Little Rock—City plans to rebuild free bridge, about $100,000. H. Levinson, City Engr.

Tex., Bowie—Montague County receiving bids Aug. 14 for steel bridge over Sandy Creek. Address County Clk., Montague.

Bridges (Continued)

Tex., Dalhart—Dallam County receiving bids Aug. 14 for steel bridge over Perice Draw near Texline. T. S. Miller, Dalhart, Judge.

Okla., Chickasha—Council plans concrete bridge at 4th St., about $6,000.

Okla., Nowata—County receiving bids Aug. 8 for bridge work. F. Akright, Nowata, County Clk.

Okla., Poteau—LeFlore County, Poocla Township, election Aug. 9 to vote on $5,000 bridge bonds. J. W. Bolt, Poteau, Trus.

Ariz., Ray—Pinal County receiving bids Aug. 7 for 200-ft steel bridge over Mineral Creek. Address County Clk., Florence.

Wash., Bridgeport—Douglas County receiving bids Aug. 10 for concrete bridge. T. G. Roberts, Waterville, Clk.

Wash., Spokane—(Official)—City receiving bids latter part August for concrete bridge at Post. St. M. Macartney, City Engr. Noted July 13.

Wash., Spokane—City to sell $300,000 bridge bonds Aug. 24. F. W. Burch, Audr. Noted Apr. 13.

Ore., Baker—Baker County making plans for 7 steel bridges between Whitney and Bridgeport and 4 in Pine Valley. I. L. Hoffman, County Engr.

Calif., Sacramento—State receives bids soon for bridge in De La Cuesta Canyon across Santa Ynez River, about $125,000.

Calif., San Diego—C. S. Hardy, San Diego, and associates, petitioned Council to build rein.-con. bridge over San Diego River, about $50,000. Address F. M. Lockwood.

Calif., Santa Ana—Orange County making plans for bridge over Santa Ana River on West Chapman Ave., about 574-ft. long, $40,000. S. H. Finley, County Engr.

Que., Montreal—City soon receives bids 11 rein.-con. bridges over aqueduct, about $500,000. F. E. Field, Res. Engr. Noted Feb. 10.

Ont., Seagrave—County receiving bids Aug. 8 for 50-ft. bridge over Nonquon River, Contract No. 1, concrete bridge; Contract No. 2, steel superstructure on concrete piers; Contract No. 3, 2 concrete piers. J. R. McNeillie, County Clk.

Man., St. Rose du Lac—City plans 50-ft. bridge with aprpoach. C. Jacob, Clk.

B. C., Fernie—Dept. Pub. Wks., Victoria, soon receives bids for 2-span steel bridge over Elk River. T. Taylor, Min. Pub. Wks.

Bids In and Contracts Awarded

Mass., Holyoke—City received low bid steel and concrete foot bridge from L. J. Sieling, 171 Madison Ave., New York, $18,315. Noted July 13.

Mass., Springfield—Bd. Pub. Wks. received low bid Dwight St. Bridge from L. J. Seiling, $18,315.

Conn., Sandy Hook—City let contract bridge over Pootatuck Creek to JOHN ABORIO, New Haven.

Penn., Athens—State Bd. Pub. Grounds and Bldgs. let contract bridge over north branch Susquehanna River to WHITAKER & DIEHL, Harrisburg, $82,048. Noted July 27.

Penn., Greensburg—Westmoreland County let contract 2 rein.-con. bridges in Donnegal Township to G. W. DRURY, York.

Penn., Somerset—County let contract bridge over Paint Creek to F. H. ZIEGLER, Somerset, $6,393.

Penn., Philadelphia—Philadelphia & Reading Ry. received low bid bridge at Fern Rock from R. Walsh, 7th and Glenwood St., $113,500.

Penn., Yukon—(Official)—County let contract rein.-con. bridge over Sewickley Creek to R. GALIARDI, Connellsville, $6,293. Noted July 13.

Md., Baltimore—State Rd. Comn. let contract bridge on Liberty Heights Ave. to L. G. DINTERMAN, Walkersville, $19,167.

Ga., Rome—Floyd County let contract Broad St. Bridge to HUGHES ENGINEERING CO., Indianapolis, $69,219. Noted June 15.

Ala., Brewton—County let contract bridge to PERDIDO BAY BRIDGE AND FERRY CO., Bay Minette. Noted June 15.

Ala., Gadsten—Etowah County let contract bridge over Black Creek on Tuscaloosa St. to C. W. COOPER, Anniston.

Miss., Vicksburg—City let contract bridge over Stouts Bayou, Bomar Ave., to T. ZOLLINGER, $7,200.

Ky., Greenup—Greenup County let contract concrete bridge to BURGESS & CO, Scottville, Va., $6,800.

Ohio, Cleveland—Cuyahoga County let contract Cahoon Bridge to W. E. STACYDING, 1383 East 93rd St., $13,000.

Ohio, Dayton—(Official)—County let contract steel bridge superstructures in Jefferson Township to BROOKVILLE BRIDGE CO., Brookville, $33,772. Noted July 6.

Ind., Anderson—Madison County let contract 2 bridges over Fall Creek; ELKHART BRIDGE CO, Elkhart, 141-ft. bridge; NEWCASTLE BRIDGE CO., Newcastle, 101-ft. bridge.

Ind., Anderson—County let contract bridge over Fall Creek near Ovid to BURK CONSTRUCTION CO., New Castle, $7,350.

Ind., Brazil—Clay County let contract bridge in Harison Township to LAUDINE & FRISCHMAN.

Mich., Grand Rapids—City let contract paving National Ave. Bridge to VON DER WEELE BROS., $8,367.

Ill., Kankakee—State Highway Comn., Springfield, let contract Kolbe and Forberger Bridges to CONTINENTAL BRIDGE CO., Peotone.

Ill., Lincoln—County let contract 2 concrete bridges to DECATUR BRIDGE CO., Decatur.

Ill., Olney—Richland County let contract Redman, East Dundas and Coon Bridges to S. A. CONNER & SON, Newton

Wis., Manitowoc—City let contract bridge to M. MOSIEL, 2012 Hamilton St

Kan., Phillipsburg—Phillips County let contract 2 bridges to CANTON BRIDGE CO., 515 New York Life Bldg., Kansas City, Mo., $5,325.

N. D., Minot—Ward County let contract bridges to C. H. WHITNEY, Frame.

Mo., Mexico—Audrain County let contract 25 bridges to C. L. LEITCH, Moberly, about $20,000. Noted Mar. 30.

Mo., Sedalia—Sedalia Special Rd. Dist. let contract 5 bridges to WESTERN BRIDGE CO., Harrisonville.

Ore., Astoria—City received low bid viaduct from Western Paving Co., $51 980.

N. B., St. Johns—Bd. Pub. Wks let contracts bridges: Arostook Bridge, DOMINION BRIDGE WORKS, Montreal, Que., $33,318; Scodouc Bridge, MARITIME BRIDGE CO., New Glasgow, N. S., $22,000.

LIGHT, HEAT AND POWER

Proposed Work

N. Y., New York—(Manhattan)—Long Island Lighting Co., 50 Church St., granted permission by Pub. Ser. Comn. to issue $80,000 capital stock and $92,000 bonds. Part of proceeds to be used for improvements and extensions.

N. J., Bloomfield—Fries Bros. making plans for power plant. Noted July 20.

N. J., Lambertville—Bd. Pub. Utility Comrs. directed Lambertville Pub. Ser. Co. to improve and enlarge plant. About $25,000.

N. J., Newark—Pub. Ser. Electric Co. authorized by Bd. Pub. Utility Comrs. to issue $3,000,000 capital stock for extensions and improvements.

N. J., Newark—Newark Soap Co. plans boiler house in connection with plant on Delancey St., about $63,000.

Penn., Northampton—Lehigh Valley Light and Power Co., Allentown, granted permission for street-lighting system.

Md., Baltimore—Consolidated Gas and Electric Co. plans to enlarge substation at Monument and Constitution St, about $12,500.

Ga., Savannah—City plans gas and electric-light plant. E. R. Conant, City Engr.

Fla., Chipley—Chipley Light and Power Co. plans 2 mi. transmission line to Lime Quarry. E. H. Hale, Gen. Mgr.

Fla., Manatee—City plans electric-light plant, about $12,000. C. H. Combs, City Engr

Ala., Andalusia—Andalusia Light and Power Co. plans to improve plant. J. N. McClurg, Mgr.

Miss., Biloxi—Gulf Cities Gas Co. making plans for gas plant and distribution system. About $60,000. G. B. Cartelyou, Jr., Mgr. Noted May 25.

Tenn., Memphis—See item under "Industrial Works."

Ky., Perryville—See item under "Industrial Works."

Ohio, Bluffton—City election Aug. 8 to vote about $30,000 electric-light plant bonds.

Ind., La Porte—Comrs. La Porte County plan power plant for courthouse and jail, about $10,000.

Mich., Hancock—City votes in November on bonds for electric-light plant. C. G. Mason, City Engr. Noted July 6.

Ill., Lebanon—City election soon to vote on $12,000 electric-light plant bonds.

Iowa, Mt. Vernon—Wapsie Power and Light Co, Mt Vernon, plans 17 mi. transmission lines to West Branch, also substation and switchboard panel. K. Lindsay, Mgr.

Iowa, Northwood—Citizens recently defeated bonds for electric-light plant.

Iowa, Oneida—Iowa Electric Co., Cedar Rapids, plans electric-light system at Oneida.

Iowa, Washington—Iowa Gas and Electric Co., Washington, plan 35 mi. transmission line with 5 substations. H. F. Darbyshire, Mgr.

Kan., Dighton—See item under "Water-Works."

Kan., Hoxie—City voted $14,000 bonds for electric-light plant. Plans being made. G. P. Taylor, Stockton, Engr. W. F. Lipton, Mayor. Noted May 18.

Neb., Burchard—City votes Aug. 12 on $4,000 electric-light bonds.

S. D., Clark—City soon votes on $16,000 bonds for electric-light system. Noted May 18.

Mo., Lebanon—City soon votes on $8,000 bonds for electric-light and water-wks. plant. T. B. Burley, Clk.

Mo., Uhrich—City plans to rebuild electric-light plant.

Tex., Taylor—City plans to extend lighting system.

Okla., Edmond—City soon votes on $9,000 bonds for improving and extending electric-light system

Okla., Miami—See item under "Water-Works."

Colo., Lyons—Council plans electric-light plant.

Utah, Mendon—H. J. McKay, Weston, Idaho, and T. J. Yates, Salt Lake City granted franchise for electric light plant. W. Bartlett, Mayor.

Ore., Portland—Pacific Power and Light Co., Spaulding Bldg., making plans for substations in East Washington.

Que., Sherbrooke—City soon lets contract for concrete dam at hydroelectric plant. Address City Clk

Ont., Courtright—City Council plans hydro-electric system.

Ont., Niagara Falls—Thompson-Porter Cataract Co. applied to Dominion Government of Ottawa for permission for dam in rapids below falls for development of 2,000,000 hp. of electric energy below Niagara Falls.

N. B., St. John—Council plans to spend $30,000 for power house at General Hospital.

Bids In and Contracts Awarded

Wis., Appleton—Wisconsin Traction, Light, Heat and Power Co. let contract addition to power plant to W. S. PATERSON & CO.

WATER-WORKS

Proposed Work

Conn., Hartford—Water Bd. receiving bids Aug. 16 for about 22,500 ft. c.-i. mains, from 6- to 12-in. W. G. Aubrey, Supt.

N. Y., Forestport—State Conservation Comn., Albany, making surveys for storage reservoirs to regulate flow of Black River Valley. E. S. Cullings, Albany, Asst. Engr.

N. Y., Irvington—Bd. Water Comrs. receiving bids Aug. 15 for mains. W. H. Winne, Supt. Water-Wks.

N. Y., Oswego—City voted $345,000 bonds for development of city water power at west end of Dam No. 6 in Oswego River. F. W. Ornesby Supt.

N. J., Atlantic City—(Official)—City receiving bids Aug. 10 for furnishing gate valves and check valves. J. B. Thompson, Dir. Parks and Pub. Property. (See adv. July 27 issue.)

N. J., Vineland—Borough Comrs. plan to extend system. C. W. Sinley, Supt.

Penn., Media—City sold $70,000 bonds for water plant. P. E. Ahern, Engr.

Md., East New Market—Bd. Town Comrs. receiving bids Aug. 15 for mains. Kastenhuber & Anderson, Easton, Engr.

Va., Richmond—City receiving bids Aug. 15 for 851 lengths of 30-in. c.-i. pipe, Class B, 315 lengths of 12-in. pipe, etc. E. G. Davis Supt. Water-Works.

W. Va., Sistersville—City election soon to vote on bonds for rapid sand filtration plant. C. E. Lindsley, Supt.

Ga., Dublin—(Official)—Citizens voted $30,000 filter plant bonds. J. A. Kelley, Chn. Light and Water Comn. Noted May 18.

Miss., Macon—City receiving bids Aug. 7 for water-works. J. A. Tyson, Chancery Clk.

Ky., Louisville—Louisville Water-Wks. Bd. made plans for pumping station on Ohio River. J. M. Johnson, 54 Bd. of Trade Bldg., Consult. Engr.

Tenn., Knoxville—City election Sept. 9 to vote on $225,000 water-works bonds. Address J. G. Crumbliss, Comr.

Ohio, Canal Dover—City sold $30,000 water-works bonds. D. Ott, Supt. Noted July 13.

Ohio, Cincinnati—J. A. Hiller, Supt., recommends reservoir of 200,000,000-gal. capacity on Western hills.

Ohio, Jefferson—Council voted $4,500 water-works bonds.

Ohio, Lima—City made plans for pumping station and water-works. About $73,000. J. Askins, Supt.

Ohio, Medina—Bd. Pub. Affairs receiving bids Aug. 12 for mechanical filtration and pumping plant. F. L. Rollins, Supt. Water-Wks.

Mich., Highland Park—(Official)—Village received bids in about 2 weeks for 40,000,000-gal. rein.-con. reservoir. Hoad & Decker, Ann Arbor, Engr. Noted July 6.

Mich., Owendale—Village receiving bids Aug. 7 for water-works. R. A. Murdock, 706 Free Press Bldg., Detroit, Engr. R. O. Sodan, Clk.

Wis., Colby—City receiving bids Aug. 17 for rein.-con. water tank, 153,000 gal. capacity. F. W. Lulloff, City Clk.

Iowa, Coin—Citizens voted $12,000 water-works bonds. Noted June 29.

Iowa, Essex—Citizens voted $10,000 water-works bonds. Noted July 13.

Iowa, Odebolt—City voted bonds for extending water system. A. F. P. Schmitz, Clk. Noted June 22.

Water-Works (Continued)

Kan., Neodesha—City making plans for improving and extending system. C. M. Kimball, Supt. Black & Veatch, 507 Inter-State Bldg., Kansas City, Mo., Engr.

Kan., Osborne—Council receiving bids Aug 11 for improving and extending system. E T. Archer & Co., 524 New England Bldg., Kansas City, Engr. Noted May 11.

Kan., Palco—City made plans for works. G. P. Taylor, Stockton, Engr. Noted June 15.

Kan., Plainville—City making plans for improving system. F. J. Hoss, Supt.

Neb., Arnold—Citizens voted $14,000 water-works bonds.

N. D., Grand Forks—City receiving bids Aug. 7 for mains in Cedar St. W. H. Alexander, City Audr. J. J. Smith, Supt.

Mont., Glasgow—(Official)—Bd. County Comr. of Valley County receiving bids Aug. 9 for water and electric-light systems. W. B. Shoemaker, Clk. (See adv.) Noted June 29.

Mo., Barry—Citizens voted $17,000 water-works bonds.

Mo., Maryville—City election soon to vote on $20,000 water-works bonds.

Mo., Trenton—City making plans for filter plant. J. B. Haney, Supt. E. E. Harper, 2404 East 30th St., Engr.

Tex., Dalhart—Dalhart Water Co. plans plant and distributing system. About $50,000. S. A. Killen, interested.

Tex., Vernon—See item under "Streets and Roads."

Okla., Hunter—City plans works.

Okla., McLoud—City election soon to vote on $15,000 water-works bonds. Former election illegal. Benham Engineering Co, Colcord Bldg., Oklahoma, Engr. Noted July 27.

Okla., Miami—Citizens voted $25,000 bonds water system and electric-light plant. A. L. Sailors, Supt. Noted July 13.

Okla., Woodward—City election soon to vote on $12,500 water-works bonds. F. H. Kilburn, Supt.

N. M., Clayton—City soon awards contract for improving water system. About $55,000. H. O. Duerr, Consult. Engr. M. R. Jones, Clk. Noted June 22.

Idaho, Pocatello—City making plans for 15 mi. of flow line pipe and enlarging distribution system for water-works. E. C. Smith, Supt. Water Dept.

Calif., San Diego—City making plans for pipe line from Otay dam site to Bonita "Y", about $250,000. H. R. Fay, Supt.

Calif., Woodland—City receiving bids Aug. 7 for boring well. G. E. Whitney, City Clk.

Ont., Matheson—City receiving bids Aug. 8 for water-works. F. E. Ginn, Clk. McAuslan & Anderson, North Bay, Engr.

Ont., Mimico—See item under "Sewers."

Bids In and Contracts Awarded

Mass., Boston—City received low bids high-pressure mains in various streets from Coleman Bros., Chelsea, $11,614; A. Baruffaldi, Somerville, $14,426; M. DeSisto, West Roxbury, $21,651.

N. J., Atlantic City—City let contract c.-i. pipe and fittings for high-pressure system to U. S. CAST IRON PIPE AND FOUNDRY CO., Morris Bldg., Philadelphia, $58,756. Noted Apr. 6.

Penn., Easton—Lehigh Valley Water Co. let contracts for water-works improvements to R. T. & C. D. STEWART CONTRACTING CO., Easton, reservoir at Chestnut Ridge and mains in College Hill, WARREN FOUNDRY AND MACHINE CO., Phillipsburg, N. J., laying 9,000 ft. pipe. Noted July 27.

N. C., Salisbury—Bd. Water Comr. let contracts filtration plant and water-works improvements to A. T. TWIGGS & SON, Augusta, Ga., $37,000, structures; W. M. WILKES, Warrentown, $12,900, laying pipe; C. W. LEE, Winston, $9,400, reservoir; NEW YORK CONTINENTAL JEWELL FILTRATION CO., New York, $12,200, filtration plant. Noted June 29.

N. C., Wilmington—City rejected bids received July 19 for 500 ⅝- and ¾-in. water meters. T. D. Meares, City Clk. Noted July 6.

Ga., Macon—City let contract pump house to W. J. MARSHALL CO.

Fla., Arcadia—(Official)—City let contract works to STIDHAM & HUGHES, Bartow, $38,831. Noted July 20.

Ohio, Lima—City let contract 10,000 ft. mains, valves and couplings to J. B. CLOW & CO., $8,200.

Ohio, Lowellville—City let general contract works to J. P. MORRISON & CO.; pump house and standpipe, P. A. ANDERSON and PITTSBURGH-DES MOINES STEEL CO.

Ill., Aledo—City Council let contract 150,000-gal. water tank to CHICAGO BRIDGE AND IRON WORKS, 1300 West 105th St., Chicago, $6,800.

Kan., Dighton—City let contract water-works and electric-light plant to EVERETT & BURT Hutchinson, $24,500. Noted May 18.

Colo., Nederland—City let contract water-works system to ALLEN & MURPHY, Denver. About 20,000. Noted June 22.

Ore., Canby—(Official)—City let contract water stem to CRANE CO., Portland, $12,000.

Ont., Niagara Falls—Water Bd. let contract chlorinating plant at pumping station to ELECTRO BLEACHING GAS CO., New York.

SEWERS

Proposed Work

N. H., Manchester—City soon votes on $40,000 sewer bonds. S. J. Lord, City Engr. Noted June 29.

N. Y., Cobleskill—(Official)—Village receiving bids Aug. 11 for extending sewer and water systems. W. H. Golding, Clk. H. Roberts, 112 State St., Albany, Engr. (See adv.)

N. Y., New York—(Brooklyn)—L. H. Pounds, Boro. Pres., Room 2, Borough Hall, receiving bids Aug. 10 for sewer in portion Bedford Ave.

N. J., Newark—Bd. Freeholders Essex County making plans for disposal plant at Overbrook Hospital.

N. J., Rahway—(Official)—Merck & Co., Rahway, receiving bids Aug. 15 for 805 ft. 12-in. vitrified tile sewer with necessary "Y" branches, manholes, etc., in portion Lincoln Ave. (See adv.)

Penn., Athens—City receiving bids Aug. 7 for sewage-disposal plant.

Penn., Bradford—See item under "Streets and Roads."

Md., Hagerstown—City Sewerage Com. plans sewage-disposal plant. J. B. Ferguson, Engr.

Ga., Savannah—City receiving bids Aug. 15 for 1 mi. of rein.-con. box combined sanitary and storm sewer. E. R. Comant, Ch. Engr.

Fla., St. Cloud—City votes Sept. 5 on $21,000 bonds for sewer system and septic tank. W. A. Ginn, Sanford, Engr. F. B. Kennedy, City Clk. Noted July 27.

Ala., Selma—City plans to rebuild North Selma sewer, about 2 mi. Address R. Browning, Supt.

Miss., Greenwood—See item under "Streets and Roads."

Miss., Laurel—City made plans for extending storm sewers. H. W. Bell, City Engr.

Tenn., Memphis—(Official)—City retained H. E. Elrod, Southwestern Life Bldg., Dallas, as engineer for disposal plant.

Ohio, Delaware—City receiving bids Aug. 5 for sewage-disposal plant in Berlin Township. Richards Engineering Co., 27 East Long St., Columbus, Consult. Engr. Noted Dec. 23.

Ohio, Sidney—City votes Aug. 8 on $19,700 sewer bonds. T. Blake, City Engr. Noted July 13.

Ohio, Wooster—City plans sewer in Columbus Ave. E. U. Mowery, City Engr.

Ill., Champaign—City plans sewer in West Main St. F. C. Lohmann, City Engr.

Ill., Elmhurst—(Official)—Bd. Local Improvements receiving bids Aug. 8 for sewer work. W. Platner, 69 West Washington St., Chicago, Engr. (See adv. July 27 issue).

Ill., Normal—City plans sewers in Dry Grove St. and alleys adjoining.

Wis., Kaukauna—(Official)—City rejected bids sewers in 10th and Crooks St. New bids Aug. 18. L. C. Wolf, City Clk. Noted July 13.

Wis., Mellen—Bd. Pub. Wks. receiving bids Aug. 8 for 6- and 8-in. sewer in various streets.

Wis., Stoughton—City receiving bids Aug. 7 for storm sewer Monroe St. L. C. Currier, City Clk.

Wis., Thief River Falls—City receiving bids Aug. 8 for sewers. A. H. Fasel, City Clk.

Iowa, Alton—City plans sewers.

Iowa, Charles City—(Official)—Citizens defeated $75,000 sewer bonds. W. S. Beattie, City Engr. Noted July 27.

Iowa, Eldon—City receiving bids Aug. 7 for sewer system. H. E. Ritz, City Clk.

Iowa, Mapleton—(Official)—City rejected bids for sewer system. New bids Aug. 8. Bruce & Standeven, Bee Bldg., Omaha, Engr. Noted June 22.

Iowa, New Hampton—City receiving bids Aug. 15 for disposal plant, about $20,000. F. B. Strike, City Clk.

Minn., Carlton—Citizens voted $12,300 bonds for sewer and water systems.

Minn., Mabel—City receiving bids Aug. 8 for sanitary sewer system and sewage-disposal plant. E. J. Johnson, City Recdr. J. F. Druar, 312 Commercial Bldg., St. Paul, Consult. Engr. Noted July 27.

Kan., Hutchinson—City making plans North Main St. district sewer, about $20,000. G. L. McLane, City Engr.

Neb., Florence—City defeated $20,000 bonds for sewer system. Noted June 22.

Neb., Plattsmouth—City receiving bids Aug. 14 storm sewer in Chicago Ave. J. F Warga, City Clk.

S. D., Mitchell—City receiving bids Aug. 7 for sanitary sewer. T. Eastcott, City Audr.

Mont., Hardin—City voted $12,000 bonds for sewer system and sewage-disposal plant. A. L. Mitchell, Mayor. Noted June 29.

Tex., Frost—City voted $10,000 bonds for sewer system. Noted Mar. 30.

Tex., Houston—City plans sanitary sewer system and sewage-disposal plant. About $500 E. E. Sands, City Engr.

Tex., Vernon—See item under "Streets and Roads."

Okla., Edmond—City election soon to vote on $8,000 sewer bonds. E. S. Blackburn, Mayor.

Okla., Norman—City election soon to vote on $7,000 sewer bonds. M. Wise, City Clk.

Ore., Eugene—City soon lets contract for sewers in 14th Ave.

Calif., Chino—City receiving bids Aug. 15 for sewer system. About $58,000. Omsted & Gillelen, Hollingsworth Bldg., Los Angeles, Engr. F. L. P. Wetmore, City Clk. Noted July 20.

Calif., Fresno—City Council will let contract in September for storm and sanitary sewer system. About $500,000. B. E. Cronkite, City Engr Noted May 18.

Calif., Richmond—City made plans for storm and sanitary sewer. About $125,000. H. D Chapman, City Engr. Noted Apr. 13.

Ont., Mimico—Council passed by-laws for sewers and water-supply pipe. J. A. Telfer, Clk.

Ont., Stratford—Council passed by-laws for sanitary sewers on McNab and Nelson St. and storm sewers on Cobourg and Mornington St. A. B. Manson, City Engr.

Bids In and Contracts Awarded

Mass., Pittsfield—City let contract Tyler St. drain to J. H. FERGUSON & CO., Dorchester; $17,052.

N. Y., Binghamton—Bd. Pub. Wks. let contract rebuilding sewer in Lehigh Ave. to KEYSTONE STATE CONSTRUCTION CO., $38,000. Noted Apr. 6.

N. Y., New York—(Manhattan)—(Official)—Santor Co., 254 West 41st St., low bidder improving sewer portion Park Ave.

N. Y., New York—(Queens)—Low bidders sewer: H. I. Paino, 67 Bay 47th St., Brooklyn, Maure Ave., $10,466 Birch St., $23,123; H. Britton, 238 South Elm St., Woodmere Pl., $5,488; J. Kelly, Rust St., $34,061; J. C. Scerade, St. Felix Ave., $8,718. Noted July 20.

N. J., Edgewater—City Council rejected bids for Sewer No. 11.

N. J., Trenton—(Official)—City Comn. let contract sewers in Lyndale, Park and Bismarck Ave to J. F. SHANLEY CO., Essex Bldg., Newark, $42,460. Noted June 29.

Penn., Scranton—City let contract sewers in Park, Rogers and Archibald St. to N. PERRI, $1 02 lin ft

Fla., Miami—City let contract sewer in District No. 9 to J. J. QUINN CO., Miami, at $13,061.

Ohio, Celina—City let contract sanitary sewer system to W. J. ERWING, Greenville, $13,084.

Ohio, Dayton—City let contract Leo St. storm sewer to BOYD & COOK, $12,697.

Ohio, Kenton—City let contract sewer to D. M. DETRICK, $4,000. Noted May 25

Ind., Muncie—City let contract sewers to W. M. BIRCH CO. and C. DELANEY. Noted July 13.

Mich., Ann Arbor—(Official)—City received low bid storm and sanitary sewers from Hochrein & Co., $13,087. M. Osgood, City Engr. Noted July 13.

Wis., Kenosha—City received low bid Edwards St. sewer from P. Frandsen; Lincoln Ave. and Prairie St., Ostergaard Bros.

Wis., Milwaukee—City let contract disposal plant to A. H. PRANGE, Grand Rapids, about $500,000.

Iowa, Ft. Dodge—City let contract storm sewer to C. A. KLING; sanitary sewer, BENSON & REED.

Iowa, Mt. Pleasant—City let contract G. A. BERGDAHL, $23,300 for sewers and sewage-disposal plant.

Iowa, Oskaloosa—City let contract sewers North Dist. to KANSAS PAVING AND CONSTRUCTION CO., $18,964. Noted June 29.

Iowa, Waterloo—City let contract sewers to MOORE-SIEG CONSTRUCTION CO., $25,951. Noted June 1.

Minn., Pipestone—City let contract storm water sewers to G. S. REDMON, Pipestone, $14,945. Noted July 6.

Minn., Red Lake Falls—City let contract sewers to J. McDONALD, Duluth, $17,307. Noted July 6.

Minn., Wadena—City let contract sewer to PASTORET CONSTRUCTION CO., Duluth, $40,266. Noted June 22.

Kan., Glasgo—City received low bid for sanitary sewer outlet, School Dist. No. 5, from A. R Stimson, Topeka, $5,594. Noted July 13.

Mo., Kansas City—Bd. Pub. Wks. let contracts sewers: Dist. No. 399, Div. 5, KOEHLER CONSTRUCTION CO., 220 Produce Exchange Bldg., $12,827; Dist. No. 238, Div. 5, JOHNSON REAL ESTATE AND CONSTRUCTION CO., 328 Olive St., $14,520. Noted Mar. 16.

Calif., Lompoc—City let contract sewer system to CHAMBERS & HEAFY, Bacon Bldg. Oakland, $36,000.

GARBAGE

Proposed Work

Ohio, Cleveland—City plans incinerators for rubbish and refuse. R. Hoffman, City Engr.

Ohio, Crooksville—City plans garbage disposal system. W. H. Davis, Mayor.

Tex., Tyler—City plans incinerator. Albert Woldert, City Health Officer. J. J. White, City Engr.

Okla., Tulsa—City election soon to vote on $35,000 incinerator bonds. H. H. Wyss, Engr. Noted July 13.

Bids in and Contracts Awarded

Mich., Highland Park—City let contract incinerator to C. F. WALTHERS, 804 Breitmeyer Bldg., Detroit. Noted May 11.

STREETS AND ROADS

Proposed Work

N. H., Manchester—City plans $60,000 bond issue for paving. S. J. Lord, City Engr.

Mass., Walpole—City making plans for improving Main St.

N. Y., Albany—(Official)—State Highway Comn., 55 Lancaster St, receiving bids Aug. 14 for highways in various counties. E. Duffey, Comr. (See adv.)

N. Y., Albany—(Official)—State Highway Comn., 55 Lancester St., receiving bids Aug. 16 for highways in various counties. E. Duffey, Comr. (See adv.)

N. Y., Albany—(Official)—State Highway Comn., 55 Lancaster St., receiving bids Aug. 18 for highways in various counties. E. Duffey, Comr. (See adv.)

N. Y., New York—(Richmond)—C D Van Name, Boro. Pres., Borough Hall, St George, New Brighton, receiving bids Aug. 8 for repaving portion 3d St., granite blocks.

N. Y., Olean—City soon receives bids paving West Sullivan St., brick, about $4,500. E. E. Allen, City Engr.

N. Y., Schenectady—Bd. Contract and Supply plans to improve portion Elbert St. T. Wooley, 147 Franklin St., Engr.

N. J., Bloomfield—Bd. Freeholders Essex County, Newark, receiving bids Aug. 7 for improving Broad St. Address Clk., Newark.

N. J., Bloomfield—Council receiving bids Aug. 7 for improving Spring and Baldwin St., asphalt. R. F. Davis, Town Clk.

N. J., Guttenberg—Council receiving bids Aug. 7 for paving Park Ave.

N. J., Hammonton—City receives bids soon for road work, about $30,000. Remington & Visbury, 6th and Market St., Camden, Engr.

N. J., Hewitt—State Rd. Comn., Paterson, plans macadam road through Hewitt.

N. J., Manalapan—(Englishtown post office)—Bd. Chosen Freeholders of Monmouth County receiving bids Aug. 9 for about 1 mi. gravel road. I. M Corlies, Freehold, Dir. G. D. Cooper, 60 Broad St., Red Bank, Engr.

N. J., Montclair—Bd. Freeholders Essex County, Newark, receiving bids Aug. 7 for improving Valley Rd. Noted June 22. Address Clk., Newark.

N. J., Montclair—(Official)—Town Clk. receiving bids Aug. 15 for paving and curbing portion Bellevue Ave. H. W. Jones, Act. Town Clk. (See adv.)

N. J., Morristown—Bd. Freeholders Morris County receiving bids Aug. 7 for 13 roads. Address Clk., Morristown.

N. J., Morristown—Bd Freeholders receiving bids Aug. 14 for 2 roads. Address Clk, Morristown.

N. J., Newark—(Official)—Bd St. and Water Comrs. receiving bids Aug. 10 for grading portion Ave. R. M. R Sherrard, City Engr. Noted July 20. (See adv.)

N. J., Newark—Bd. Freeholders Essex County plans to improve portion Belleville Turnpike. Address County Clk., Newark.

N. J., New Brunswick—(Official)—City receiving bids Aug. 4 for repaving 10 streets, about $75,000. A. Atkinson, City Engr. Noted July 20.

N. J., Newton—Bd. Freeholders Sussex County plans to improve Lafayette Rd., macadam. H. Snook, County Engr.

N. J., Paterson—Rd Com. Bd. Freeholders Passaic County receiving bids Aug. 16 for improving portion Totowa Rd, Piaget and Wanaque Ave., bituminous concrete and granite blocks. G. W Botbyl, Paterson, Clk.

N. J., Plainfield—City plans to improve Ravine Rd., Leland, Stella and Kensington Ave. and Lake St., macadam. A. J. Gavett, City Engr.

N. J., Ridgewood—Bd. Freeholders plans to improve Wesel Rd. Address Clk., Passaic.

N. J., Trenton—City soon lets contract for paving portion Bayard St., concrete. J. R. Fell, Jr., City Engr.

Penn., Ashley—City receiving bids Aug. 10 for repaving Main St, brick. F. Butts, Miners Bank Bldg, Wilkes-Barre, Engr. Noted July 6

Penn., Butler—Butler County receiving bids Aug. 18 for improving Butler and Saxonburg Rd., Jefferson Township, about 20,175 ft., brick. Address County Clk., Butler. Noted June 22.

Penn., Connellsville—City plans to pave and curb various streets, about $15,000. C. F. Hirst, City Engr.

Penn., Conshohocken—Borough Council plans to improve Ford and Front St.

Penn., Darby—Borough receiving bids Aug. 7 for paving portions various streets. E. R. Franklin, Secy. A. F. Damon, Jr., Engr.

Penn., Eddystone—Council sold $35,000 paving bonds.

Penn., Erie—City making plans for 16-ft. boulevard portion East Ave. F. G. Lynch, City Engr.

Penn., Harrisburg—City plans to pave Honey St., asphalt. M. B. Cowden, City Engr.

Penn., Hazleton—City making plans paving portion Green St. B. E. Youngman, City Engr.

Penn., Hazleton—City plans to pave Church and Vine St. B. E. Youngman, City Engr.

Penn., Meadville—(Official)—City receives bids about January for 60,000 sq yd. paving and 22,000 lin ft. curb and guttering, about $170,000. B. F. Miller, Jr, City Engr. Noted June 15.

Penn., Middletown—City plans to pave Union St., brick. D. Irwin, Clk. Council.

Penn., Natrona—City plans to improve portion Vine St., brick. C. E. Miller, Jenkins Arcade, Pittsburgh, Engr.

Penn., Norristown—County plans to spend $160,000 for highways and bridges. Address County Clk., Norristown.

Penn., New Eagle—City voted $20,000 street improvement bonds.

Penn., Woodlawn—(Official)—Borough receiving bids Aug. 7 for paving Station, Kiehl and Copeland St., Highland Ave. and Bank Alley. W. M. Anderson, Asst. City Engr. Noted July 20.

Md., Cumberland—City receiving bids Aug. 11 for paving portion Baltimore and Flat St. R. L. Hizer, City Engr.

Md., Rockville—Montgomery County receiving bids Aug. 8 (extension of date), for portion State-Aid Highway upon or along Poolesville Rd B. E. Clark, Rockville, County Clk. Noted July 6.

Va., Richmond—City making plans improving portion 14th St. C. E. Bolling, City Engr.

W. Va., Elkins—Randolph County receiving bids Aug. 10 for surfacing 4½ mi. road, crushed rock or gravel. T. Pritt, Elkins, Clk. Noted July 20.

W. Va., Hamlin—Lincoln County receiving bids Aug. 9 for Porter Fork Rd, Dubal Township about 4 mi. A. F. Black, Hamlin, Clk.

W. Va., Parkersburg—City plans to pave portion Market St. T. L. Higgs, City Engr.

N. C., La Grange—City election Aug. 7 to vote on $10,000 street improvement bonds.

Fla., Blountstown—Calhoun County election Aug. 25 to vote on $130,000 road bonds. Address County Clk., Blountstown.

Fla., Perry—Taylor County voted $600,000 road bonds. Address County Clk., Perry. Noted July 6

Fla., West Palm Beach—Palm Beach County plans election to vote on bonds for road from West Palm Beach to south shore Lake Okeechobee.

Ala., Birmingham—City plans to pave Clairmont Ave., about $5,000. Julian Kendrick, City Engr.

Ala., Birmingham—(Official)—Bd. Revenue Jefferson County receiving bids Sept. 11 for 14 mi. highway from Wylam to Warriors River. G. H. Clark, Birmingham, County Engr. Noted July 13. (See adv.)

Ala., Florence—Lauderdale County plans road. Address County Clk., Florence.

Miss., Brandon—Rankin County, Beat 1, voted $50,000 road bonds. Address County Clk., Brandon.

Miss., Columbus—Lowndes County sold $90,000 road bonds. Address County Clk., Columbus.

Miss., Greenville—Washington County making surveys for 145 mi. new roads, about $950,000 available. W. W. Miller, Greenville, Clk. J. S. Allen, County Rd. Engr. Noted June 15.

Miss., Greenwood—City voted $20,000 bonds curbing, guttering and sewering Washington St.

Miss., Grenada—Grenada County receiving bids Aug. 7 for Jefferson Highway north and south through county, also similar road extending east and west through county. Noted Apr. 6.

Miss., Grenada—City voted to pave portion Main St.

La., Many—Sabine Parish voted $30,000 bonds for link Jefferson Highway. Address Clk. Police Jury, Many.

La., Monroe—(Official)—Quachita Parish appointed J. W. Billingsley, Consult. Engr, Interstate Bank Bldg., New Orleans, to plan and supervise system of highways in Rd. Dists. Nos. 1 and 2. Noted June 8.

La., New Orleans—(Official)—Highway Dept. Bd State Engrs., Room 104, New Orleans Court Bldg, receiving bids Aug. 14, for surfacing Coushatta-Shreveport Highway, Red River Parish, about 8 or 10 mi. W. E. Atkinson, State Highway Engr.

La., New Roads—Pointe Coupee Parish, Rd. Dists. No. 1 and 2 election Aug. 16 to vote on proposition to build roads. Address Police Jury, New Roads.

La., New Roads—Pointe Coupee Parish, Rd. Dist. No. 3, voted $40,000 road bonds. Address Police Jury, New Roads.

Tenn., Decaturville—Decatur County election Sept. 2 to vote on road bonds. Noted July 20.

Tenn., Erwin—Unicoi County Rd. Comn. receiving bids Aug. 10 for 26-mi road, about $106,500 available. T. C. Hensley, Erwin, Supt. Noted June 1.

Tenn., Knoxville—City plans to repair Broad St., asphalt, $4,000. J. H. McCalla, City Engr.

Tenn., White Bluff—Dickson County to spend $5,500 on portion of Memphis-Bristol Highway. Address County Clk., Charlotte.

Ohio, Cincinnati—Hamilton County soon receives bids for improving portion Dry Run Rd., about $43,826. Address County Clk, Cincinnati. W. H. Boch, County Engr.

Ohio, Cincinnati—City plans to improve Owasco, Linn and Bank St., asphalt. F. S. Krug, City Engr.

Ohio, Cleveland—City receiving bids Aug. 28 for $183,000 street-improvement bonds. C. J. Neal, 226 City Hall, Dir. Finance.

Ohio, Cleveland—Council passed ordinance to pave portion Coit Rd. R. Hoffman, City Engr.

Ohio, Columbus—Franklin County receiving bids Aug. 9 for resurfacing road. Address County Clk., Columbus.

Ohio, Deshler—(Official)—Village receiving bids Aug. 9 for improving portion Maple St., brick. R. W. Hoskinson, Clk. Noted June 22.

Ohio, Findlay—Hancock County sold $27,000 road bonds. Address County Clk., Findlay.

Ohio, Lebanon—Warren County receiving bids Aug. 15 for paving Dayton, Lebanon and McPhillips Rd., about 5 mi, crushed rock. C. E. Mounts, Lebanon, Audr. R. E. Miller, Engr.

Ohio, London—Village receiving bids Aug. 25 for paving South Main St. J. W. Byers, Clk.

Ohio, Marietta—City receiving bids Aug. 9 for paving portions Chestnut, Vine, Holley and Poplar St. and Oakwood Ave. F. Gates, City Engr. Noted July 20.

Ohio, Marietta—City receiving bids Aug. 8 for improving Putnam and Prospect Ave. and Hunter St, brick. W. E. Baker, Dir. Pub. Ser. F. Gates, City Engr. Noted May 25.

Ohio, Martins Ferry—Bd. Control receiving bids Aug. 10 for paving portion Elm, Vine and Virginia St. T. McPherson, City Clk. Noted May 25.

Ohio, Mingo—Council plans to pave portion St. Clair St, brick.

Ohio, Mt. Vernon—City plans to improve portion South Mulberry and Catherine St. and West Ohio Ave. W. Anderson, City Engr.

Ohio, New Boston—City sold $28,000 street improvement bonds.

Ohio, Portsmouth—City soon receives bids improving portion 4th St. P. G. Harper, City Engr.

Ohio, Sandusky—Council passed resolution to improve portion Tyler St. A. F. Johnson, City Engr.

Ohio, Springfield—City plans to pave East Court St., Grube Rd. and Lowrey and Euclid Ave. M. J. Bahin, City Engr.

Ohio, Sylvania—(Official)—Village rejected bids paving Bank and Indiana St. About $8,087. New bids Aug 7. P. Wagonlander, Clk. Noted July 6

Ohio, Tiffin—Council passed ordinance to improve portion Washington St. L. O. Runkel, City Engr.

Ohio, Utica—City sold $9,727 street paving bonds. J. Kemper, City Engr.

Ohio, Youngstown—City sold $67,235 street improvement bonds. F. M. Lillie, City Engr.

Ind., Columbus—City lets contract paving Washington and 3d St., also 2 other streets about Aug. 21. G. Rader, City Engr. Noted June 1.

Ind., Ft. Wayne—Allen County receiving bids Sept. 1 for macadam roads in Jackson, Wayne, Monroe, Madison and Jefferson Townships. W. Johnson, Ft. Wayne, Audr.

Ind., Indianapolis—City making preliminary plans paving portion Randolph St. B. J. T. Jeup, City Engr.

Ind., Muncie—Delaware County receiving bids Aug. 19 for crushed stone road in Center Township. E. M. Williams, Muncie, Audr.

Ind., Spencer—City plans to pave various streets L. Drescher, City Engr.

Mich., St. Johns—Rd. Comrs. Clinton County receiving bids Aug. 7 for 3½ mi. Class C slag gravel trunk line highway. Address County Clk., St. Johns.

Streets and Roads (Continued)

Mich., St. Johns—City making plans paving Cass St. and Maple and Linden Ave.

Mich., Wyandotte—City plans to improve Forest, Spruce, Elm, Cherry and Cedar St. M. L. Brown, City Engr.

Ill., Belleville—St. Clair County plans to widen and grade about 15 mi. road. D. O. Thomas, County Supt. Highways.

Ill., Belvidere—Bd. Superv. Boone County to spend $26,616 for highway improvements. Address Clk., Belvidere.

Ill., East St. Louis—City plans boulevard to encircle city, about $400,000. E. F. Harper, City Engr.

Ill., Glencoe—City making plans paving 2nd section Glencoe Rd., brick, about $21,000. Windes & Marsh, Engr.

Ill., Marion—County receiving bids Aug. 15 for 3 mi. concrete road. P. B. Wilson, Marion, Supt.

Ill., Maywood—City plans to pave portion South 4th St., brick. H. A. Ulrich, Clk.

Ill., Milan—Rock Island County soon lets contract for concrete sidewalks, about $11,000. Address County Clk., Rock Island. Noted June 15.

Ill., Waukegan—City receives bids about Aug. 20 for paving Helmholz Ave., concrete, about $9,000. M. J. Douthitt, City Engr. Noted June 8.

Ill., Wheaton—City making plans paving 13,331 sq yd., bituminous, about $25,000. L. J. Ruddock, Engr.

Wis., Chippewa Falls—City plans to pave and curb portion Main St., brick. A. Thompson, City Engr.

Wis., Fond du Lac—City plans to pave Oshkosh Rd. J. S. McCullough, Engr.

Iowa, Tipton—Cedar County receiving bids Aug. 7 for grading 7 mi. road. Address County Audr., Tipton. H. L. Phelps, County Engr.

Minn., Chisholm—Village petitioned to pave portion Maple St. E. E. Webber, Pres.

Minn., Grand Marais—City plans $15,000 bond issue for improving Gunflint Rd.

Minn., St. Paul—City plans to pave portion Rice St., wood blocks, $73,693. O. Claussen, City Engr.

Minn., St. Paul—City rejected bids for grading Burns Ave., about $6,487. New bids. Oscar Claussen, City Engr.

Kan., Dodge City—Council passed resolution to pave portion 1st St. and Ave. B. W. E. Baldy. City Engr.

Neb., Aurora—City rejected bids for paving, new bids soon. Bruce & Standeven, Omaha, Engr.

Neb., Fremont—Council petitioned to pave portion Park Ave. M. Roessler, City Engr.

Neb., Fremont—City soon receives bids for paving 9 blocks I St. M. Roessler, City Engr. Noted May 4.

Mo., St. Joseph—City making plans for paving Cherokee St. C. P. Hoff, City Engr.

Mo., Webb City—City plans to pave portion Dougherty St. L. S. Briggs, City Engr.

Ark., Clarksville—City plans to pave Main St. and Court House Sq. A. W. Laser, Clk.

Ark., Hope—State Highway Comn., Little Rock, making plans for 2 mi. concrete road from Hope to Dyke Springs, about $11,000.

Ark., Pine Bluff—City plans to pave 6th and Harding Ave., concrete and gravel. F. R. Allen, City Engr.

Tex., Beeville—(Official)—Bee County defeated proposition to vote on $300,000 road bonds. Noted July 13.

Tex., Dallas—City plans to pave portion Columbia Ave. and Lafayette St. H. Moseley, City Engr.

Tex., El Paso—City receives bids for paving portion South Stanton St. G. Espy, City Engr.

Tex., Georgetown—Williamson County plans election to vote on $200,000 road bonds. Address County Clk., Georgetown.

Tex., Houston—Harris County election soon to vote on $15,000 road bonds. Address County Clk., Houston.

Tex., Vernon — City voted $54,000 bonds for paving and sewer and water systems. Noted June 1.

Idaho, Lewiston—City receiving bids Aug. 7 for 2,760 sq.yd. 6-in. one-course concrete paving, 13,395 sq yd. 4-in. concrete paving and 3,650 ft. concrete curb. D. C. Wrighton, City Engr.

Ariz., Globe—Gila County receives bids about Sept. 1 for 64,000 sq yd. concrete pavement on Globe-Miami and Winkelman-Hayden Highway, about $90,000. R. G. Thomas, County Engr. Noted Apr. 6.

Ariz., Phoenix—City receiving bids Sept 20 for 12,200 yd. pavement. J. B. Girand, City Engr.

Wash., Colfax—Whitman County receiving bids Aug. 21 for improving 11 mi. Permanent Highway No. 12. Address County Clk., Colfax, J. M. McCaw, County Engr. Noted June 29.

Wash., Port Townsend—(Official)—Jefferson County receiving bids Aug. 8 for about 7-mi. road to Leland Valley, about $12,000. J. D Lidders, Port Townsend, Audr. Noted July 13.

Wash., Seattle—City made plans for paving 2d Ave., N. E., about $12,000. A. H. Dimock, City Engr.

Wash., Seattle—Bd. Pub. Wks. soon let contract for paving Olive St., brick. A. H. Dimock, City Engr.

Ore., Astoria—City plans to pave Bond, Franklin, 11th, 12th, Duane and Jerome St., about 30,000 sq yd., asphaltic concrete, bitulithic or brick. G. T. McClean, Engr.

Ore., Carlton—City soon receives bids for paving portion Pine St.

Ore., Pendleton—Umatilla County making plans for Pitman Rd., concrete, about $420,000. Address County Clk., Pendleton.

Calif., Los Angeles—Bd. Pub. Wks. receiving bids about Aug. 21 for improving portions 11th St., San Pedro Dist., 58th and Main St. and Towne Ave. H. Hamlin, City Engr.

Calif., Los Angeles—County made plans for 10.62 mi. concrete road, about $132,885. Address County Clk., Los Angeles.

Calif., Pasadena—City lets contract for improving Lock Haven St. and Holliston Ave. latter part August. R. B. Orbison, City Engr.

Calif., Redwood City—County receiving bids Aug. 7 for surfacing 7½ mi. Redwood-San Gregorio Highway. J. H. Nash, Redwood City, Clk.

Calif., San Diego—City soon lets contract for improving portions Owen, Lawrence, McCall, Kellogg and San Fernando St. G. T. Cromwell, City Engr.

Calif., Ukiah—County receiving bids Aug. 8 for road at Salmon Creek. H. Prather, Ukiah County Clk.

Calif., Vallejo—(Official)—City receiving bids Aug. 15 for improving various streets. T. D. Kilkenny, City Engr.

Calif., Ventura—Ventura County receiving bids Aug. 8 for improving 8.77 mi. Somas to Santa Clara River Rd., Div. 7. J. B. McClusky, Ventura, Clk.

Ont., Galt—City plans to pave Ainslie St., asphalt.

Ont., Leamington—City plans concrete pavement from Victoria to Fox St. R. M. Selkirk, Clk.

Ont., Toronto—Com. of Wks. recommended paving Silverton Ave., asphalt, $20,905; McKenzie Crescent St., concrete, $5,663; Yone St., granite block, $9,912.

Ont., Toronto—Com. of Wks. recommended paving Glenmanor Dr., $6,080; Blackthorne Ave., $17,218; Roxborough and McPherson Ave., $7,126.

B. C., Saanich—South Saanich Council plans road from West Saanich Rd. to Prospect Lake Rd. H. S. Copwer, Clk.

Bids In and Contracts Awarded

Maine, Jackman—State Highway Comn. let contract Jackman-Rockwood Rd. to E. T. MITCHELL, Oakland, $20,327.

Maine, Norway—City let contract paving to SMALL & INGALLS, Bar Harbor. Noted June 29.

Mass., Boston—City let contract paving various streets to CENTRAL CONSTRUCTION CO., 228 Southampton St., Roxbury, $51,500. Noted July 20.

Mass., Brookline—City let contract improving various streets to D. DRISCOLL, 21 Kent St., $37,000.

N. Y., Brighton—City let contract concrete work to SCHROEDER-HICKS CONTRACTING CO., Mercantile Bldg., Rochester, $20,000.

N. Y., New York—(Bronx)—(Official)—Borough let contract paving portion Kingsbridge Rd. to ASPHALT CONSTRUCTION CO., Madison Ave. and 137th St., Manhattan.

N. Y., New York—(Manhattan)—(Official)—Low bids improving portion 37th St. from Asphalt Construction Co., Madison Ave. and 137th St., $40,834; 29th St., Barber Asphalt Paving Co., $9,521. Noted July 20.

N. Y., New York—(Richmond)—(Official)—Low bid paving portion Pelton Ave., J. Johnson Sons, West New Brighton, $8,002. Noted July 20.

N. Y., Westfield—City let contracts paving to H. B. SPIRAL CONSTRUCTION CO., Peekskill, $24,232; WELDON CONTRACTING CO., Rahway. $5,927.

N. J., Bayonne—City let contracts paving: W. T. A. CRITCHFIELD, 2 Green St., Jersey City, 5th St. Contract 807, $19,934, 8th St. Contract 808, $13,214; CULLIFAN & MACHANSKA, Bayonne, 22d St., $60,663. Noted July 6.

N. J., Jersey City—Hudson County let contract improving Paterson Plank Rd. to NOLAN & HORNUNG. Noted June 22.

N. J., Madison—Borough Council let contract paving Lincoln Pl. to HASTINGS PAVING CO., $2.11 sq.yd.

N. J., Rahway—Union County let contract repairing portion St. George Ave., C. H. WINANS CO., 1st sect., $21,859; WELDON CONSTRUCTION CO., 2nd sect., $42,819.

Penn., Beaver Falls—City let contract paving 7th Ave. to J. G. McGUIRE & CO., New Brighton, $26,820. Noted July 27.

Penn., Bradford—City let contract paving Kendall Ave. to M. APPLEGATE & SON, Bradford, $12,075. Noted July 13.

Penn., Bradford—City let contract street improvements and sewer to J. B. SHEEHAN, $8,[illegible]00.

Penn., Carnegie—(Official)—City let contract improving Washington Ave. to S. GAMBLE CO., Main St., $41,478.

Penn., Edgeworth—City let contract paving Challis and Shields Lanes to McPHERSON BROS.

Penn., Forks—City let contract 17,800 sq yd. paving to CENTRAL SUPPLY AND CONSTRUCTION CO., $1.85 per yd.

Penn., Harrisburg—City let contract paving May and Green St. to CENTRAL CONSTRUCTION AND SUPPLY CO., 222 Market St.

Penn., Harrisburg—City let contract paving Snow and Swatara St. to CENTRAL CONSTRUCTION AND SUPPLY CO., 222 Market St., $13,306. Noted July 27.

Penn., Harrisburg — State Highway Dept. let contracts roads: Chester County, Route 131, Sect. S, SOUDER CONSTRUCTION CO., Lancaster, $109,631; Forest County, State-Aid Application No. 320, SOUTH SHORE CONSTRUCTION CO., Erie, $11,527. Noted July 27.

Penn., Millvale—Borough let contract paving and curbing Stanton Ave. and Howard St. to J. BATTENFELD, 6 Sedgwick St.

Penn., Nanticoke—(Official)—City let contract paving portion Washington St. to CARADOC REES, Nanticoke, $10,352.

Penn., Wilkes-Barre—City let contract paving portion Carey Ave. to HERRICK CONSTRUCTION CO., Bennett Bldg.

Penn., Windber—City let contract 5,700 sq yd. paving to TORQUATO BROS., Windber, $13,277. Noted July 13.

Penn., Wyoming—Borough let contract paving East 8th St. to O'BRIEN BROS., Avoca.

Penn., York—City let contract paving portions Princess, Charles and King St. to GENERAL SUPPLY AND CONSTRUCTION CO., York. Noted July 6.

Del., Newark—Delaware County let contract developing grounds to MANWARING & CUMMINGS, 1326 Chestnut St., Philadelphia, $45,000.

Md., Baltimore—City let contract paving, Contract No. 8, to SLINGLUFF-BROWNE CO., 1405 Munsey Bldg., $6,280.

Md., Baltimore—State Rd. Comn. let contracts paving to P. FLANIGAN & SONS, Hartford Ave. and 25th St., Baltimore, Liberty Heights Ave.; HOPE CONSTRUCTION CO., Denton, $8,785, Dorchester County Rd.; F. C. GROSSMAN, Equitable Bldg., Baltimore, $46,052, Emmittsburg-Thurmont Rd.; J. W. MARTIN, Annapolis, $12,192, Liberty Rd. Noted July 6.

Md., Baltimore—(Official)—City received low bids paving; P. F. Reddington, 321 St. Paul St., Contract No. 137, $18,476, Contract No. 138, $6,583; Baltimore Asphalt Block and Tile Co., Monroe and Lorman St., Contract No. 139, $120,323.

Md., Rockville—Montgomery County let contract 5½-mi. road to BROWN & GASKINS, Baltimore, $30,000.

Va., Pulaski—Pulaski County let contract completing Pulaski-Bland Rd. to N. F. WHITE and M. DAVIS, Sassin, $4,000.

W. Va., Burnsville—City let contract 1 mi. brick paving to J. FUCCY, Weston. Noted July 13.

N. C., Greensboro—City let contract paving Tate St. to R. G. LASSITER & CO.

N. C., Newbern—Craven County let contract paving 9 mi. road to GEORGIA ENGINEERING CO., Augusta. Noted June 22.

Ga., Atlanta—Fulton County let contracts paving to PITTMAN CONSTRUCTION CO., Lakewood Ave., $18,590, Mason & Turner Rd., $37,000, Hightower Rd., $28,120. Noted July 6.

Ala., Dothan—Houston County let contract 20 mi. road to H. L. WOFFARD & CO., Dothan. Noted June 29.

Tenn., Chattanooga—City let contract repaving Oak St. to WEST CONSTRUCTION CO., $24,000.

Tenn., Dyersburg—City let contract paving and storm sewers on 7 streets to MEMPHIS ASPHALT AND PAVING CO., 811 Fallo Bldg., Memphis. Noted July 6.

Ky., Bowling Green—Warren County let contract road work to R. L. GORRELL, Russellville. Noted July 6.

Ky., Lexington—City let contract sidewalks in Woodland Park and South Upper St. to F. T. JUSTICE & CO., Lexington.

Ky., Maysville—City let contract paving various streets to VASTINE & NOWLAND, 227 West 6th St., Covington, $14,314.

Ohio, Akron—City let contract improving portion Mallaison St. to McALONAN BROS., Akron. Noted June 29.

Ohio, Akron—City let contract paving Weber and Charlotte St. to E. McSHAFFERY & SON, $17,972. Noted July 27.

Streets and Roads (Continued)

Ohio, Akron—City let contract paving portion Bank St. to PAYNE ENGINEERING CO., 600 Second National Bank Bldg., $27,830.

Ohio, Alliance—City let contract paving East Patterson St. to DOWNS CONSTRUCTION CO., Canton.

Ohio, Barberton—City let contract paving portion Norton Ave. to C. H. WATTERS, 53 East Exchange St., Akron, about $16,000.

Ohio, Cleveland—Cuyahoga County let contract repaving Noble Rd. to McHUGH BROS., 8819 Yale Ave., $10,575. Noted June 8.

Ohio, Columbus—City received low bid paving portion Miller Ave. from A. G. Pugh, Union National Bank Bldg., $7,924.

Ohio, Dover—Cuyahoga County let contract paving 2d section Old Town Valley Rd. to NORMAN & SON, $19,000.

Ohio, Jamestown—City let contract paving to McCAREY & STARKS, Xenia, $25,000.

Ohio, Logan—City let contract improving Zanesville Ave. and High St. to HUSTON & HENDERSON, Coshocton.

Ohio, Mt. Gilead—City let contract paving Cherry St. to G. F. WIELAND, Mt. Gilead, $10,295. Noted July 13.

Ohio, Piqua—Bd. Control let contract paving West Ash St. to ANDREWS ASPHALT CONSTRUCTION CO., Hamilton.

Ohio, Steubenville—(Official)—City let contract improving Superior, Maple and Oakland St. to H. M. BATES, South 3d St., $11,386.

Ohio, West Salem—(Official)—Village let contract improving Main St. to PETERS & BAIRD, Wadsworth, $23,490. Noted July 6.

Ind., Ft. Wayne—Park Comrs. let contract curbing, guttering and sidewalks to GROSJEAN & ROEMER, Ft. Wayne, $12,586. Noted July 6.

Ind., Indianapolis—City let contract improving Keystone and School St. to R. E. M. CONSTRUCTION CO., Evansville, $26,800.

Ind., Muncie—City rejected bids for improving Myrtle Ave.

Ind., Muncie—City let contract paving 9th St. to W. TORRENCE.

Ind., North Vernon—City received low bid 16,000 sq.yd. brick paving from J. De Golyer, Seymour.

Ind., Plainfield—Town let contract brick paving to G. T. MILLER, Lebanon, $38,950. Noted July 27.

Ind., Plymouth—(Official)—City let contract sidewalks to F. APPLEMAN, Plymouth.

Ind., Richmond—Bd. Pub. Wks. let contract paving 17th, 18th St. and Reeveston Rd. to ANDREWS ASPHALT CONSTRUCTION CO., Hamilton, Ohio, $1.87 sq.yd.

Mich., Detroit—Council let contracts paving, DETROIT ASPHALT PAVING CO., Detroit, St. Jean Ave., $30,813, Maidstone Ave., $10,796, Piquette Ave., $8,366, Lumley Ave., $7,294; J. A. MERCIER, Seminole Ave., $26,548; THOMAS E. CURRIE, Waterloo Ave., $10,607; JULIUS PORATH & SON, Gibson Ave., $6,123.

Mich., Howell—City let contract paving portion Division and Walnut St. to WILLUSTON CONSTRUCTION CO., Rochester, $1.92 per sq.yd. Noted July 6.

Ill., Champaign—City let contract curbing, guttering and paving to STIPES & PILCHER, 108 North Walnut St., $22,000. Noted Apr. 13.

Ill., Cicero—City let contract paving 52nd St. to H. B. GOELITZ, 810 North Blvd., Oak Park.

Ill., Decatur—City let contract paving Prairie and East Main St. to S. A. TUTTLE, East Prairie St. Noted Apr. 27.

Ill., Dwight—City let contract paving various streets to D. F. UPTON, Odell, $35,000.

Ill., Fairfield—City let contract paving in Central Paving Dist. to B. S. and J. E. CRAINE CO., about $47,000. Noted July 6.

Ill., Glenellyn—City let contract paving to PEERLESS ENGINEERING AND CONSTRUCTION CO., $110,000.

Ill., Minonk—City let contract paving portion Chestnut St. to I. D. LAIN, Bloomington.

Ill., Mt. Carroll—City let contract paving to GUND-GRAHAM CO., Freeport, $14,000.

Ill., Peoria—City let contract paving to D. A. MEYER, Peoria, $36,000.

Ill., Peoria—(Official)—County let contract improving Farmington Rd. to BARNEWOLT CONSTRUCTION CO., Peoria, $12,761.

Ill., Peoria—City let contract paving portion McClure Ave. to McELWEN & BUSHELL, Peoria, $57,515. Noted July 20.

Ill., Ridgefarm—City let contract 35,157 yd. paving to SELL & KOLLAR, Pana, $70,759.

Wis., Kenosha—City let contract paving portion Pomeroy St. to PETERSON CONSTRUCTION CO., Kenosha, $23,144. Noted July 6.

Wis., La Crosse—(Official)—Bd. Pub. Wks. let contract brick paving to LA CROSSE STONE CORPORATION, 28th and Main St., $20,000. Noted July 13.

Wis., Oshkosh—Winnebago County let contract road to LARSEN CONSTRUCTION CO., Oshkosh.

Wis., Sparta—City received no bids for 2 blocks brick pavement. Work to be done by day labor.

Wis., Superior—Bd. Pub. Wks. let contract paving portion Logan Ave. to RUSSELL CONSTRUCTION CO.

Wis., West Allis—Bd. Pub. Wks. let contract paving portion 75th St. to KROENING CONSTRUCTION CO., Majestic Bldg., Milwaukee, $1.49 sq yd. Noted July 27.

Wis., West Salem—City let contract paving Leonard, Hamilton and Jefferson St. to T. E. WOOLEY, La Crosse, $15,000.

Iowa, Atlantic—Cemetery Association received low bid paving Cemetery Rd. from G. Mancini, Florence, Neb., $1.45 granite trap rock and $1.25 crushed gravel or limestone concrete. Noted June 29.

Iowa, Clinton—City let contract paving Cherry St. to CENTRAL ENGINEERING CO., Davenport, $5,845.

Iowa, Cresco—City let contract paving and curbing streets to DECORAH CEMENT SIDEWALK CO., Decorah.

Iowa, Des Moines—City let contract paving 1st St. to J. HORRABIN & CO., 1422 Walnut St.

Iowa, Des Moines—City let contract paving Saylor Rd. and Sheridan Ave. to DES MOINES ASPHALT PAVING CO., 11th and Vine St.

Iowa, Dubuque—City let contract paving Locust St. to J. LEE, 207 West Locust St.

Iowa, Dubuque—(Official)—City let contract paving 10th St. to C. B. McNAMARA & CO., 280 West 17th St. Noted July 20.

Iowa, Monticello—(Official)—City let contract curbing and guttering to L. MINER, Monticello, $7,538.

Minn., Buhl—City let contract paving Jones and Forest St. to E. W. COONS CO., Hibbing.

Minn., Duluth—General Contracting Co., at $11,667, only bidder repaving 27th St.

Minn., Hutchinson—McLeod County let contract grading to ENGSTROM & HASFORD, Northfield, $36,000.

Minn., Pipestone—City let contracts paving: YANLEY CONSTRUCTION CO., Minneapolis, 1,886 sq.yd., $1.39, 38,462 sq.yd., $1.24, 11,000 cu yd. grading, $0.45; L. FORSMAN, Pipestone, 19,248 ft. curbing, $5,503. Noted July 6.

Minn., Robbinsdale—City received bids paving Crystal Lake Ave. from General Construction Co., Minneapolis, $39,969, bitulithic, wood block, $46,042; Schugun Bros., Minneapolis, $25,900, concrete. Noted June 8.

Neb., Superior—City let contract paving to Watts and Ammerman, Salina, Kan., $22,000.

Mont., Great Falls—City let contract paving portion 5th St. to S. BIRCH & SONS CONSTRUCTION CO. Noted July 20.

Mont., Helena—City let contract paving portion Lawrence St. to RODGERS & ALLEN, $4,547. Noted Jan. 6.

Mont., Missoula—(Official)—City let contract paving in Special Improvement Dist. No. 42 to J. C. MAGUIRE, Butte, $33,331. Noted July 13.

Mo., Joplin—City let contract paving portion West 4th St. to V. E. KOCH, $28,119. Noted July 6.

Mo., Kansas City—Bd. Pub. Wks. let contracts paving: A. H. PITTINGER CONSTRUCTION CO., 4702½ Troost Ave., portion Troost Ave., $5,969; E. F. WILCOX, 592 Dwight Bldg., 62nd St., $5,212, Liberty St., $5,280.

Tex., Amarillo—Council let contract paving to WESTERN PAVING CO., about $50,000.

Tex., Dallas—Bd. City Comrs. let contract paving portion Forest Ave. and South Blvd. to WESTERN PAVING CO.

Idaho, American Falls—City let contract 12 mi. cement sidewalks and crosswalks, Improvement Dists. Nos. 8 and 9, to S. A. FOSTER, American Falls, $45,536.

Idaho, Boise—(Official)—City let contract paving Harrison, 8th, 16th and Jefferson St. and Harrison Blvd. to WARREN CONSTRUCTION CO., $100,313. Noted July 13.

Idaho, Moscow—City let contract paving North Main St. to STANDARD ASPHALT PAVING CO., Moscow, $11,826. Noted July 27.

Utah, Bingham—(Official)—Boxelder County let contract road work to M. L. ENSIGN and H. KELLER.

Utah, Salt Lake City—City received low bid paving portion 13th St., E., from P. J. Moran, $43,904. Noted June 6.

Ariz., Flagstaff—City let contract 59,000 sq ft. sidewalks to WILLIAM J. MULLEN, $8,500. Noted Feb. 24.

Wash., Bremerton—Kitsap County let contract highway to KEMP & CLARKE, Seattle, $4,794.

Wash., Seattle—Bd. Pub. Wks. received low bid concrete walks on 39th Ave., S., from G. A. Banderet, Bellevue, $22,222.

Wash., Seattle—Bd. Pub. Wks. let contract paving 13th Ave. to P. J. McHUGH, 3d Ave., N., and Mercer St., $15,527.

Wash., Seattle—Bd. Pub. Wks. received bids paving Warren Ave.; P. J. McHugh, 3d Ave. N., and Mercer St, $32,083; A. J. Baumgartner, 711 16th St., $34,672; Washington Paving Co., Smith Bldg., $34,876. Noted Feb. 3.

Wash., Walla Walla—Walla Walla County let contract 3 mi. Permanent Highway No. 11 to L. L. LANNING, Walla Walla, $17,000. Noted June 15.

Ore., Astoria—City received low bid bitulithic paving from Western Paving Co., $10,000.

Ore., Astoria—City let contract paving to OREGON INDEPENDENT PAVING CO., $9,366.

Ore., North Bend—City let contract paving waterfront highway from Washington St. to city limits to ANDERSON & KLOCKERS, North Bend, $43,707. Noted July 27.

Calif., Arcadia—City let contract street work to A. HOLLOWAY, Pasadena, $24,375.

Calif., Los Angeles—City let contract paving portion Cassatt St. to J. HEIN, Los Angeles, $21,021.

Calif., Los Angeles—County received low bids paving portion Mesa Dr. from A. L. McCray, 234 West 28th St., Los Angeles, $11,380. Noted June 15.

Calif., Los Angeles—City let contract stone dust for 1 year to RIVERSIDE PORTLAND CEMENT CO., 640 Title Insurance Co., $2.75 per ton.

Calif., Ontario—City let contract about 49,000 sq ft. 4-in. concrete paving to HEINAUER & KYLE, Watts, 9.23c. sq.ft.

Calif., Riverside—City let contract improving North Main St. to JOHNSON-SHEA CO., 5th and Main St, $35,496.

Ont., Woodstock—City let contract paving 12,000 sq.yd. Riddle St. to BRENNAN & HOLLINGSWORTH, Hamilton, $1.38½ per sq.yd.

INDUSTRIAL WORKS

Proposed Work

Mass., Worcester—Worcester Cold Storage and Warehouse Co. plans 4-story, 60x77-ft. addition on Hygeia St.

Conn., Bridgeport—American Electric Equipment Co., 115 Broadway, New York, making plans for factory. K. Thomas, 120 Broadway, New York, Arch.

Conn., Bristol—New Departure Manufacturing Co., 269 North Main St., plans 4-story brick factory on Valley St.

N. Y., Albany—American Biscuit Co. making plans for factory. About $14,000. Demers, Mosely & Campaigne, Ilium Bldg., Troy, Arch.

N. Y., Barryville—W. Rose Proctor soon receives bids for dairy building, hay and cow barns. A. Hopkins, 101 Park Ave., New York, Arch.

N. Y., Bath—Bath Harness Co. plans to rebuild factory. E. K. Derrick, Mgr.

N. Y., Buffalo—Acme Pattern and Machine Co. Inc., soon receives bids for 2-story, 100x176-ft. factory. About $50,000. G. Morton Welfe, Henkle Bldg., Arch. Noted June 22.

N. Y., Buffalo—Simmons Co., Kenosha, Wis., plans factory at Ellicott and Carroll St., Buffalo.

N. Y., Lockport—Niagara Emery Co. plans addition to plant. About $16,000.

N. Y., New York—(Bronx)—John O'Leary, 991 East 167th St, made plans for 1-story, 75x75-ft. factory at 188th St. and Washington Ave., about $12,000. J. P. Boyland, 2526 Webster Ave., Arch.

N. Y., New York—(Bronx)—Port Morris Chemical Works, Locust Ave. and 140th St, made plans for 3-story brick storage building, about $18,000. J. P. Boyland, 2526 Webster Ave., Arch.

N. Y., New York—(Bronx)—Webster & Tremont Building Co., 1662 Boston Rd., made plans for 5-story rein.-con. garage at Grand Blvd. and Concourse. About $70,000. S. J. Kessler, 232 East 165th St, Arch.

N. Y., New York—(Brooklyn)—H. Hermendinger, 9 Washington Ave., made plans 2-story factory north side Johnson Ave., about $25,000.

N. Y., New York—(Borough of Brooklyn)—D. Laurecella, 213 Schenectady Ave., making plans 1-story garage, about $25,000. J. C. Wandell, 4 Court Sq., Arch.

N. Y., New York—(Manhattan)— Corporation of Florida made plans for 5-story, 25x75-ft. warehouse. About $20,000. J. L. Jackson, 69 Barrow St., Gen. Mgr.

N. Y., New York—(Manhattan)—M. A. Cramer, 153 East 79th St, made plans for 5-story rein-con. garage at 184 East 70th St. About $100,000. G. F. Pelham, Inc., 30 East 42d St., Arch.

N. Y., New York—(Manhattan)—M. Greenberg, 302 East 82d St, made plans for 2-story brick garage at 228 East 35th St. About $25,000. L. A. Sheinart, 194 Bowery, Arch.

N. Y., New York—(Manhattan)—Joseph Levy, 18 West 115th St., making plans for 4-story, 40x100-ft. brick garage, about $30,000. Sommerfeld & Steckler, 31 Union Sq., Arch.

N. Y., New York—(Manhattan)—L. Schumacher, 1128 1st Ave, receives bids soon garage, 62d St. and 1st Ave., about $25,000. L. A. Sheinart, 192 Bowery, Arch.

N. Y., New York—(Manhattan)—307 West 36th St. Corporation made plans for 12-story brick and concrete factory, about $100,000. Maynicke & Franke, 25 Madison Ave, Arch.

Industrial Works (Continued)

N. Y., New York—(Manhattan)—West 42d-43d St Corporation made plans for 22-story brick and concrete factory at 351 West 42d St, about $600,000. Maynicke & Franke, 25 Madison Ave., Arch.

N. Y., New York—(Queens)—Norma Co. of America made plans for 4-story rein.-con. factory at Queens Blvd. and Long Island R.R. Francisco & Jacobus, 200 5th Ave., Manhattan, Arch. Noted June 22.

N. Y., Salamanca—Fancher Furniture Co. making plans for 3-story, 50x100-ft. addition to factory. A. T. Fancher, Pres.

N. Y., Schenectady—C. Williams, Clinton St., making plans for 2-story dairy and pasteurizing plant. About $18,000. W. E. Stephens, 152 Barrett St., Arch.

N. Y., Syracuse—Will & Baumer soon receives bids for 3-story, 70x178-ft. addition. About $300,000. G. L. Noble, Union Bldg., Arch. Noted Feb. 3.

N. Y., Wellsville—Moore Steam Turbine Co. made plans for 2-story, 80x100-ft. factory.

N. J., Bayonne—Duryea Manufacturing Co. making plans for 180x287-ft. factory, 2d St. and Ave. C.

N. J., Jersey City—Lackawanna Terminal Stores Co., 15th and Provost St., plans several warehouses.

N. J., Red Bank—Red Bank Skirt Manufacturing Co. making plans 2-story factory east side Wharf Ave., about $15,000. F. M. Truex, 1170 Broadway, New York, Arch. Noted July 6.

Penn., Darby—International Steel Treating Co. plans plant.

Penn., Harrisburg—New Idea Hosiery Co. plans 4-story, brick, factory at 14th and Mayflower St.

Penn., McKees Rocks—Carnegie Steel Co. plans 3d unit to Schoen Steel Wheel plant at McKees Rocks.

Penn., Philadelphia—A. Geissell & Son, 485 North 3rd St., making plans for 4-story addition to warehouse. C. P. Berger Co., Pennsylvania Square Bldg., Arch.

Penn., Philadelphia—Packard Motor Car Co., 317 North Broad St., making plans for 8-story, 49x69-ft. service building, 1320 Wood St. A. Kahn, Detroit, Mich., Arch.

Penn., Philadelphia—Smith, Kline & French Co., 429 Arch St., making plans for 7-story factory at 5th and Arch St. W. C. Furber, 418 Walnut St., Arch.

Penn., Philadelphia—Surpass Leather Co. making plans for 1-story addition. Brockie & Hastings, 1713 Sansom St., Arch.

Penn., Philadelphia—J. J. Wolf made plans for 2-story, brick bottling plant. About $50,000. Peuckert & Wonder, Arch.

Penn., Reading—International Money Machine Co., Terre Haute, Ind., plans factory at Reading, about $70,000.

Penn., Scranton—Wagner Fire Brick Co. plans factory, about $100,000.

Penn., Shawmut — Shawmut Paving Brick Works plan addition to plant.

Penn., Williamsport—Armour & Co. plans to enlarge J. K. Mosser tannery.

Penn., York—Bell Motor Car Co. making plans for 1-story, 108x240-ft. factory. H. M. Stauffer, Pres. Noted July 6.

Penn., York—Edison Light and Power Co. making plans for 2-story, 32x120-ft. warehouse. About $15,000. E. Leber, York, Arch.

Md., Baltimore—Baltimore Roofing and Asbestos Co. plans 2 additions.

Md., Baltimore—Pennsylvania R.R. will rebuild Northern Central Ry. grain elevator No. 3. About $2,000,000. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Va., Richmond—J. B. Mosby & Co., Inc., 13 West Broad St., making plans for 6-story plant, Broad and Jefferson St. About $150,000. Carneal & Johnston, Arch.

Va., Richmond—Union Envelope Co. plans 2-story addition, about $33,000.

W. Va., Fairmont—Fairmont Art Glass Co. will rebuild plant.

Ga., Augusta—Georgia—Carolina Packing Co. plans plant. About $250,000.

Ga., Porterdale — Bibb Manufacturing Co., Macon, plans cotton mill. About $500,000.

Fla., Manatee—Rushton Lumber Co. plans factory. About $10,000.

Fla., Tampa—Bates-Hudnall-Jetton Co. to build planing mill. E. Bates, Pres.

Ala., Jackson—Zimmerman Manufacturing Co. plans 20x104-ft. factory.

La., Shreveport—Wray-Dickinson making plans for rein.-con. garage. About $80,000.

Tenn., Memphis—Kelsey Wheel Co. making plans for factory and power house. A. E. Mahannah, Mgr.

Tenn., Rockwood—Sewell Howard plans factory. About $50,000.

Ky., Louisville—National Foundry and Machine Co., 1408 West Main St., plans additions to plant. About $200,000.

Ky., Perryville—Russell Bros. Co. made plans ice and electric-light plants, about $50,000.

Ohio, Canton—Timken Detroit Axle Co. made plans for 200x400-ft. foundry. E. R. Timken, 136 Clark Ave., Detroit, Pres.

Ohio, Cincinnati—Bodman Estate, 621 Main St. plans 80x200-ft. factory. S. Hanneford & Sons, Hulbert Blk., Arch.

Ohio, Cleveland—P. A. Geier Co. granted permit for 2-story factory, 5108 St. Clair Ave., $12,000.

Ohio, Cleveland—D. O. Summers Cleaning and Laundry Co. plans additions to plant at 6200 Carnegie Ave. About $11,800.

Ohio, Cleveland—Torbenson Gear and Axle Co. plans plant. About $75,000.

Ohio, Cleveland Heights—(Warrensville post office)—National Carbon Co., Madison and West 177th St., making plans for 2-story garage. About $30,000. Howell & Thomas, Cuyahoga Bldg., Cleveland, Arch.

Ohio, Galion—National Grave Vault Co., Heidelberg St., plans 2-story addition.

Ohio, Springfield—Safety Emery Wheel Co. plans additions to plant. J. B. Baker, Secy. and Treas.

Ind., Evansville—National Biscuit Co. plans cracker factory, 920-22 Walnut St.

Ind., Ft. Wayne—Furnas Ice Cream Co. making plans 2-story factory, about $30,000. W. L. Jones, 613 Lafayette St., Mgr. J. M. Riedel, 305 Schmitz Bldg., Arch.

Ind., Indianapolis—H. H. Hassler Corporation, 1535 Maomi St., plans automobile plant, about $44,000.

Ind., Indianapolis—Holcomb & Hoke Manufacturing Co., 1453 Van Buren St., making plans for machine shop and assembling building. McMeans & Tripp, 509 Majestic Bldg., Arch.

Ind., Indianapolis—National Glue Co. made plans for 1-story, 60x150-ft. factory. McMeans & Tripp, 510 Majestic Bldg., Arch.

Ind., Terre Haute—Indiana-Illinois Elevator Co. plans grain elevators. About $175,000. P. Kahn, Pres.

Mich., Benton Harbor—C. H. Godfrey & Son making plans for factory. About $40,000.

Mich., Detroit—J. Beyster, 875 Fort St., W., made plans for 1-story, 50x100-ft. factory. About $12,000. F. D. Madison, 412 Washington Ave., Royal Oak, Arch.

Mich., Detroit—Digestive Ferments Co., 16-26 Locust St., plans factory.

Mich., Detroit—Ideal Electric Co., 763 Gratiot Ave., making plans for 2-story, 38x85-ft. factory. F. Swirsky & Co., 201 Equity Bldg., Arch.

Mich., Detroit—S. K. Rothschild, 616 Hammond Bldg., making plans for 3-story, 80x80-ft. factory. Baxter, O'Dell & Halpin, 1027 Hammond Bldg., Arch.

Mich., Marquette—Piqua Handle Manufacturing Co. making plans for factory, 2-story. Wernette, Bradfield & Mead, Arch. Noted June 8.

Mich., Pontiac—Oakland Motor Car Co. plans addition to plant. F. W. Warner, Gen. Mgr.

Ill., Chicago—Albright-Nell Co., 4019 Wentworth Ave., making plans for 2-story, 100x150-ft. machine shop. Noted July 20.

Ill., Fayville—Aetna Powder Works plans plant. About $75,000. C. P. Messersmith, Supt.

Ill., La Salle—L. V. Orsinger making plans for bakery. About $18,000. C. D. Cooley Co., Century Bldg., Pittsburgh, Arch.

Wis., Baldwin—Baldwin Co-Operative Creamery Association plans creamery. About $50,000. J. Nymon, Mgr.

Wis., Beloit—Chesbrough & Moss making plans for 3-story, 60x124-ft. warehouse and office building. Peterson & Johnson, Lundberg Bldg., Rockford, Ill., Arch.

Wis., La Crosse—Wisconsin Railway Light and Power Co. making plans for car station, office building and employees' rooms, about $17,500. Smith-Peterson, 32 University Bldg., Milwaukee, Arch. P. Valier, First National Bank Bldg., Milwaukee, Mgr.

Wis., Milwaukee — Skubal & Schaurer, 204 Becher St., making plans for 2-story, 48x120-ft. shop.

Iowa, Des Moines—Globe Machinery and Supply Co. plans 6-story factory and warehouse, 4th and Court Ave. About $100,000.

Iowa, Des Moines—Iowa State College plans dairy farm. Proudfoot, Bird & Rawson, Hubbell Bldg., Des Moines, Arch.

Iowa, Dubuque—Carr, Ryder & Adams Co. plans addition to plant, Washington St., $12,000.

Iowa, Sioux City—Mariner & Supy, Inc., 510 Douglas St., making plans for 1-story, 50x150-ft. factory. About $18,000. Noted July 20.

Minn., Duluth—Anderson Meter Co. plans to build factory for manufacture of automatic water heater. W. P. Heimbach is Pres.

Minn., Winona—L. G. Campbell Milling Co. soon receives bids for rein.-con. storage building. About $20,000. Toltz Engineering Co., Pioneer Bldg., St. Paul, Engr. Noted June 29.

Kan., Chanute—Western Drilling Tool and Supply Co. plans to rebuild plant. E. G. Elliott, Pres.

Mont., Anaconda — W. Barth plans commercial garage and machine shop, Clark and Mercury St., about $20,000.

Mont., Butte—Wasserman Laboratories pl laboratory, about $100,000.

Mo., Kansas City—Frank Knapp & Son pla rein.-con. warehouse. About $20,000.

Mo., St. Louis—American Water Heater C Title Guaranty Bldg., plans factory. Abo $12,000.

Mo., St. Louis—Becker-Moore Paint Co., 12 Olive St., plans 3-story, 60x140-ft. factory 2d and Carroll St.

Mo., St. Louis—Florida Fruit Co. plans factor at 2911 Washington Ave. About $10,000. E. M Roberts, Pres.

Ark., Little Rock—Arkansas Brick and Tile C acquired plant of Arkansas Brick and Manufacturing Co. and Clark Pressed Brick Co. and will improve and enlarge both plants. Address W. A. Hicks.

Tex., Dallas—Busch Estate plans laundry. About $100,000.

Tex., Dallas—Texas Bludwine Co. plans plant. About $30,000. N. G. Cofer, interested.

Tex., Ft. Worth—Nissley Creamery Co. making plans for 100x200-ft. plant.

Okla., Tulsa—Miliken Co. plans crude oil refinery, about $1,000,000.

Nev., Reno—Gyrotor Corporation recently incorporated plans factory for manufacture of machinery. R. T. Ashley, Virginia City, interested.

Ariz., Douglas—Douglas Traction and Light Co. plans ice factory, about $100,000. J. S. Douglas, Pres.

Calif., Long Beach—Economy Paper Co., Los Angeles, making plans for factory, Daisy and Anaheim Ave. J. M. Cooper, and W. Douglas Lee, Marsh-Strong Bldg., Los Angeles, Assoc. Arch.

Calif., Los Angeles—Central Milling Co. plans 5-story brick flour mill at Commercial and Vines St. J. M. Gardiner, 518 Byrne Bldg., Pres.

Calif., Los Angeles—Industrial Terminal Ry. Co. plans terminal and warehouses at Allison and Alameda St. L. E. Hanchett, San Francisco, Pres.

Calif., Modesto—Modesto Creamery Co. plans cheese factory, about $10,000.

Calif., San Francisco—American Ever Ready Works of National Carbon Co., 755 Folsom St., plans 4-story factory at 8th and Brannon St., about $250,000.

N. S., Sydney—Sydney Foundry and Machine Co. plans foundry, shipbuilding plant and marine repair shops, about $75,000.

Ont., Deseronto—Dominion Hardwood Co. plans to rebuild factory.

Ont., Fergus—Beattie Bros. making plans for addition to plant. About $40,000.

Ont., London—Hunt Milling Co. plans addition, about $50,000.

B. C., Quatsino—Colonial Lumber and Paper Mills, Standard Bank Bldg., Vancouver, plans plant at Quatsino. About $100,000.

Bids In and Contracts Awarded

N. H., Franklin Falls—(Franklin post office)—M. T. Stevens Son Co., North Andover, Mass., let contract 1-story, 70x140-ft. addition to H. P. CUMMINGS CONSTRUCTION CO., Ware, Mass.

Mass., Amherst — Massachusetts Agricultural College let contract 1-story, 84x126-ft. shop to G. E. BOSWORTH & SON, Amherst. About $12,000.

Mass., Boston—Bay State Fishing Co., South Boston, let contract 2-story, 50x120-ft. storage building to GASCOIGNE & GODDARD, 19 Milk St. About $20,000.

Mass., Lowell—Consolidated Rendering Co. let contract storage, tank, furnace and tower buildings to H. A. PETERS CO., 19 South La Salle St., Chicago; chamber building to NEW ENGLAND STRUCTURAL CO., 110 State St., Boston.

Mass., New Bedford—W. C. Jones, Nash Rd., let contract addition to GASCOIGNE & GODDARD, 19 Milk St., Boston. Noted July 13.

Mass., Watertown—Perkins Institute for Blind, North Beacon St., let contract printing building to HORTON & HEMENWAY, 683 Atlantic Ave., Boston. About $40,000.

R. I., East Providence—Glenlyon Dye Works let contract 1-story, 100x280-ft. addition bleachery to B. F. SMITH CONSTRUCTION CO., 11 Broadway, New York. About $40,000.

R. I., Woonsocket—American Paper Tube Co., Hazel St., let contract addition to TURNER CONSTRUCTION CO., 11 Broadway, New York. About $75,000.

Conn., Cheshire—Connecticut Brass Co., Inc., let contract 1-story, 40x140-ft. casting shop to H. WALES LINES CO., 134 State St., Meriden. About $15,000. Noted May 25.

N. Y., Buffalo—Buffalo Pottery Co. let contract plant to ABERTHAW CONSTRUCTION CO., 27 School St., Boston, Mass.

N. Y., Buffalo—W. F. Emerson, 196 Winchester Ave., received low bid for 2-story factory and office building from E. Roos, 584 Linwood Ave. About $10,000.

N. Y., Jamestown—Jamestown Curtain Rod Co. let contract 1-story addition to MICHAIL MORTONSON, 211 Palmer St., $10 000. Noted May 11.

Industrial Works (Continued)

N. Y., New York—(Brooklyn)—Duiguid Bros., [illegible] Prospect Pl., let contract 2-story, brick garage at Atlantic and Grand Ave. to W. FLANNAGAN, 188 East 28th St., Manhattan, about $25,000.

N. Y., New York—(Brooklyn)—A. G. Spaulding Bros., Pacific St. and 6th Ave., let contract 6-story addition to R. H. HOEWES CONSTRUCTION CO., 105 West 40th St., Manhattan, $10 000. Noted July 27.

N. Y., New York—(Manhattan)—Philip and Lewis Brenner, 60 Division St., let contract 5-story factory to M. GOLDBERG, 853 Beck St. About $12,000. Noted June 15.

N. Y., New York—(Manhattan)—E. Downey, 352 West 35th St., let contract alterations to factory at 507-9 West 35th St. to BUCKLEY CONSTRUCTION CO., 303 5th Ave.

N. Y., New York—(Manhattan)—R. W. Goelet, Newport, R. I., let contract garage to be leased by Biltmore Garage Co., Inc., 233 Broadway, to INDUSTRIAL ENGINEERING CO., 30 Church St., $63 000.

N. Y., New York—(Manhattan)—John Wanamaker, 784 Broadway, let contract garage, factory and store to W. STEELE & SON CO., 1700 Arch., St., Philadelphia, about $700,000.

N. Y., Niagara Falls—Hydrol Co., 125 Front St., New York, let contract 2-story, 50x100-ft. factory at Union and Iroquois St. to F. OLLAK, 405 Lexington Ave., New York. About $30,000. Noted June 29.

N. Y., Niagara Falls—Reversible Trigger Lock Co. let contract 1-story, 50x100-ft. factory, Bath St. and Whirlpool Ave., to BROWN-POLLARD CONSTRUCTION CO., Gluck Bldg.

N. Y., Pyrites—De Grass Paper Co. let contract 2-story, 50x150-ft. addition to E. K. FENNO, North Beech St., Syracuse.

N. Y., Syracuse—Gibson—Snow Co. let contract 1-story, 38x46-ft. warehouse to E. K. FENNO, North Beech St. About $10,000.

N. Y., Yonkers—Ford Motor Co. let contract 4-story service station to G. T. KELLY CO., 20 John St., $50,000.

N. J., Harrison—Crucible Steel Co. of America, South 4th St., let contract storage building to W. H. & F. W. CANE, Woolworth Bldg., New York. Noted Dec. 2.

N. J., Hoboken—R. G. Davis Co., 8 Jackson St., let contract 5-story, 100x200-ft. addition to O. W. SHELLY.

N. J., Jersey City—N. E. Cook Oil Co. let contract. 2-story addition warehouse to J. E. VROMAN CO., 138 4th St., Union Hill, (Weehawken post office).

N. J., Jersey City—Kiernan-Hughes Co., 349 9th St., let contract factory, Brunswick and 9th St., to J. BILLINGTON & SONS, 2614 Blvd., about $17,000.

N. J., Morristown—W. T. Enslee, 70 Elm St., let contract 3-story storage building to PIO & KENNEDY, 41 Water St. About $10,000.

N. J., Paterson—Fiory Silk Dyeing and Finishing Co., 1 Clinton St, let contract 1-story, 54x142-ft. factory to J. H. STEELE & SON, 140 Market St. About $11,000.

N. J., Red Bank—Waters & Osborn Co., Chestnut St., let contract 2-story factory to QUACKENBUSH & LEONARD, 36 Hudson Ave. About $10,000.

Penn., Mt. Carmel—Mt. Carmel Silk Manufacturing Co. let contract additions to plant to G. H. KEEFER, Mt. Carmel. Noted July 20.

Penn., Philadelphia—Bergner & Engel Brewing Co. let contract 1-story warehouse at Pennsylvania Ave. and 33rd St. to E. E. HOLLENBACK, 200 North 15th St. About $60,000.

Penn., Philadelphia—Ferris Shoe Co. let contract 5-story factory, Janney and Monmouth St., to L. H. SMITH, 23 North 63rd St., Philadelphia. Noted July 6.

Penn., Philadelphia—Kopperman & Sons, 307 Florist St., let contract 2-story addition, to MONAGHAN & LOSSE, 214 South 12th St. Noted July 20.

Penn., Philadelphia—C. L. Marks, 146 North 13th St., let contract 3-story, 54x125-ft. garage to McCLOSKEY & BAHLS, Hale Bldg. About $40,000.

Penn., Philadelphia—Rushton Marot, 212 Race St., let contract factory and warehouse to W. BEAUMONT, St. Girard Bldg.

Penn., Philadelphia—National Drug Co., 4679 Stenton Ave., let contract 3-story factory to MELODY & KEATING, Bailey Bldg., Philadelphia. About $30,000. Noted July 20.

Penn., Philadelphia—Pennsylvania Salt Manufacturing Co. let contract warehouse. Delaware Ave. and Oregon St., to BOLLINGER-ANDREWS CONSTRUCTION CO., Empire Bldg., Pittsburgh, $160,000.

Penn., Philadelphia—Pestcoe Bros. & Co. let contract 4-story factory, 216 South 3rd St., to A. SHESTACK, 528 Reed St. About $14,000.

Penn., Philadelphia—Wampole & Co. let contract 3-story, 23x90-ft. factory, 424 Fairmount Ave., to STEWART BROS., 2526 North Orkney St. About $12,000.

Del., Wilmington—Pyrites Co let contract 1-story plant to E. W. MINTER CO., 115 Broadway, New York. Noted Mar. 9.

Md., Baltimore—Chemical Pigment Corporation, Land Title Bldg., Philadelphia, let contract factory to H. E. BATON, 12th and Sansom St., Philadelphia. Noted July 20.

Md., Baltimore—Konstantin Jouvraleff let contract factory to WEST CONSTRUCTION CO., Knickerbocker Bldg., Baltimore. About $12,000.

Md., Baltimore—B. Shapiro, 4818 Park Heights Ave., let contract 2-story warehouse, 824 South Eutaw St., to W. A. PARR, 1521 East North Ave. About $10,000.

D. C., Washington—A. M. Craig let contract warehouse to BOYLE-ROBERTSON CONSTRUCTION CO., 1516 H St., N. W., $66,000.

Va., Richmond—Cohen Co. let contract 5-story addition to H. L. MATHEWS, Richmond, about $50,000.

Va., Richmond—Union Envelope Co. let contract 2-story, 79x150-ft. plant to TRAVERS, WOOD CO., American National Bank Bldg. About $40,000.

W. Va., Huntington—Gwinn Bros. Milling Co. let contract 6-story grain elevator and office building to BURRELL ENGINEERING AND CONSTRUCTION CO., 323 South La Salle St., Chicago. About $40,000. Noted Feb. 10.

N. C., Burlington—J. N. Williamson & Sons Co. let contract additions to mill to GALLIVAN BUILDING CO., Greenville, $50,000.

Fla., Kissimmee—Kissimmee Citrus Grower's Association let contract for improving and enlarging plant to W. L. DUSENBURY.

Ohio, Cincinnati—Barrett Manufacturing Co., 17 Battery Pl., New York, let contract warehouse, Carr and Sargent St., to McMILLER & TAFT, about $20 000. Noted Mar. 30.

Ohio, Cleveland—American Stove Co. let contract additions to BOLDT LOW CONSTRUCTION CO., Swetland Bldg. Noted June 1.

Ohio, Cleveland—Columbia Hardware Co., 1296 East 53rd St., let contract 2-story addition to CAMPBELL-COCKBORN CONSTRUCTION CO., Euclid and East 65th St. About $10,000.

Ohio, Cleveland—Elyria Iron and Steel Co. let contract 1-story, 160x210-ft. factory to S. AUSTIN, 14230 Euclid Ave. About $80,000. Noted July 27.

Ohio, Cleveland—Republic Structural Iron Works Co., 1270 East 53d St, let contract 1-story factory to CAMPBELL COCKBURN CO., Vickers Bldg. About $10,000.

Ohio, Cleveland—Taylor Machine Co. let contract 2-story, 43x134-ft. addition to W. DUNBAR CO., 8201 Cedar Ave. About $12,000.

Ohio, Dayton—Domestic Engineering Co. let contract factory to DENIS-HUNT CONSTRUCTION CO., Dayton, $500,000.

Ohio, Dayton—Manufacturers' Production Co. let contract factory to STRUCTURAL CONCRETE CO., 755 Reibold Bldg. Noted June 22.

Ohio, Springfield—M. L. and W. B. Kleeman let contract 3-story, 40x90-ft. warehouse on West Washington St. to J. D. REERDER. About $10,000. Noted July 13.

Ind., Evansville—Orr Investment Co. received low bid for 3-story garage on Vine St. from C. Kanzler & Son, 325 American Trust Bldg. About $27,000. Noted July 20.

Ind., Indianapolis — W. J. Coleman, 127 East Market St., let contract public garage to C. C. URBAN, 456 Berwick Ave., $41,000.

Ill., Chicago — E. H. Bergson, 3931 Milwaukee Ave., let contract warehouse to JENSEN & STEENHILL, 105 South Dearborn St., $45,000.

Ill., Chicago—Central Manufacturing Dist., 1118 West 35th St., let contract warehouse to G. A. FULLER CO., 140 South Dearborn St., $270,000.

Ill., Chicago—Norgaard & Christensen, 1616 North Campbell Ave., let contract 1-story machine shop, 1750 North California Ave., to S. W. KNOX, 31 North Parkside Ave., Chicago. About $10,000.

Ill., Chicago — Sherwin-Williams Co., 116th and Stephenson St., let contract 1-story factory, Kensington Ave., to C. W. SECORD, 437 West 117th St.

Ill., Chicago—Sulzberger & Sons, 41st and Ashland Ave., let contract 4-story, 50x118-ft. oil house to SUMMER, SOLLITT CO., 79 East Adams St. About $35,000.

Ill., Chicago—Texas Co., 17 Battery Pl., New York, let contract Archer Ave. distributing station to G. A. FULLER CO., 140 South Dearborn St., Chicago.

Ill., Decatur—Mueller, Platt & Wheeland let contract warehouse to L. N. COPE & SON.

Ill., Joliet—Moore Bros. Co., Benton and Michigan Ave., let contract masonry 1-story, 42x260-ft. addition No. 2 to A. W. SMITH, 102 North Raynor St.

Wis., Appleton—Appleton Volksfreund let contract 2-story, 35x111-ft. printing and office building to APPLETON CONSTRUCTION CO., 5 Odd Fellows Bldg.

Wis., Granville—Milwaukee County received low bid for factory at new house of correction, 2 sets of plans, from Aetna Construction Co., Merrill Bldg., $54 290 and $44,640. Louis G. Widule, County Clk. Noted Mar. 30.

Wis., Manitowoc—Aluminum Goods Manufacturing Co. let 3-story, 55x65-ft. and 50x143-ft. additions to W. W. OFFLEIN, Milwaukee. Noted May 25.

Wis., Milwaukee—C. H. Armiger, 770 Greenbush St., let contract warehouse to NORTHERN CONSTRUCTION CO., Milwaukee, $10,000.

Wis., Sheboygan—Wald Manufacturing Co., 19th and Martin Ave, let contract 1-story addition to MORRIS SCHUCKHART, 1511 North 6th St. Noted July 6.

Minn., Minneapolis—Hennepin County received low bid for 1-story, 25x50-ft. laundry at Hennepin County Detention Home from L. M. Bartlett, 2544 South Aldrich Ave. Noted June 1.

Minn., St. Paul—St. Paul Milling Co. let contract 5-story, 49x120-ft. flour mill to W. J. HOY CO., 700 Metropolitan Bldg. About $100,000. Noted Apr. 13.

Minn., Two Harbors—Duluth & Iron Range Railroad Co. let contract superstructure car repair shop to BOWE-BURKE CONTRACTING CO., St. Paul; steel work, AMERICAN BRIDGE CO.; concrete and timber work Dock No. 2, NEWTON ENGINEERING CO., Milwaukee. Noted Jan. 6.

Kan., Wichita—Wichita Terminal Elevator Co. let contract grain elevator to OTTO LERICK CONSTRUCTION CO., Kansas City. About $300,000. Noted May 18.

Mo., Kansas City—Metzner Stove Repair Co., 304 West 6th St., let contract 2-story, 52x152-ft, brick, warehouse to WELLER & HUGHES, 6018 Woodland Ave., $20,000.

Ark., Little Rock—O. G. Tucker let contract to remodel building at 209-11 West 3rd St. for garage and printing plant to OGLETREE & CARTER, Little Rock, about $14,000.

Tex., Paris—Crook-Record Co. let contract 3-story building to FINN-OWINGS CO., $75,000.

Tex., San Antonio—Gunther Milling Co. let contract flour mill to LEHRACK CONTRACTING AND ENGINEERING CO. 725 Gloyd Bldg., Kansas City, Mo. About $30,000.

Okla., Ardmore — Pennington Grocery Co. let contract 2-story, 93x120-ft. brick and stone warehouse to L. F. LEE CONSTRUCTION CO., Oklahoma City, $30,000.

Ont., Oshawa—Chevrolet Motor Co. let contract plant to JOHN STACEY, Oshawa, about $50,000. Noted July 20.

Ont., Toronto—T. Eaton Co. let contract rein-con. factory to THOMSON BROS., Rusholme Rd. About $60,000. Noted July 20.

Man., Winnipeg—Woodward Elevator Co. let contract grain elevator to WESTERN IMPROVEMENT CO., Minot, N. D.

FEDERAL GOVERNMENT WORK

Proposed Work

Mass., Gloucester — Retaining Basin — Comr. Fisheries, Dept. Commerce, Washington, receiving bids Aug. 18 at Fisheries Sta.

Mass., Quincy—Dredging—U. S. House and Senate plans dredging Fore River, 24 ft. About $200,000. City appropriated $10,000, state, $75,000 and Fore River Co., $15,000.

N. Y., New York—Fortification—War Dept., Washington, making preliminary plans for fortification at Rockaway Beach, to include, wharf, storehouse, barracks, railway, etc. About $5,000,000, an appropriation of $1,400,000 having been made. F. V. Abbott, Col. U. S. Engineer Corps.

N. Y., New York — Hospital, Etc. — Depot Quartermaster, Ft. Hamilton, receiving bids Aug. 5 repairing hospital and dead house.

Penn., Philadelphia—Riprap—Lighthouse Inspector, Philadelphia, receiving bids Aug. 7 for 800 tons large riprap at Ship John Shoal Light Sta., Delaware Bay. (See adv.)

D. C., Washington—Congress killed Public Building Bill for this session.

D. C., Washington—Steps—Commissioners D. C. receiving bids Aug. 15 for rein.-con. steps in Garfield Park, S. E. O. P. Newman, Chn. Comrs.

W. Va., Wheeling—Gate Operating Machinery—U. S. Engineer Office, Wheeling, receiving bids Aug. 14, at dams Nos. 16 and 17, Ohio River. (See adv.)

Tex., El Paso—Repair Plant—U. S. Government plans at Ft. Bliss.

Calif., San Francisco—Pipe Line—Navy Dept. making plans.

China, Peking—Ice Plant—F. R. Harris, Ch. Bureau of Yards and Docks, Navy Dept., Washington, receiving bids Sept. 2, U. S. Marine Barracks. Noted July 20.

Bids In and Contracts Awarded

D. C., Washington—Building — Low bid received July 6 at Office of Constructing Quartermaster, U. S. Soldiers Home, Washington, for nurses home and addition to present building from Melton Construction Co., 11th and H St., $56,829 and J. L. Nolan Construction Co., Washington, $51,105, respectively. Noted June 15.

Va., Arlington — Approaches — Arlington Memorial Amphitheater Comn., 1729 New York Ave., received bids approaches to Memorial Amphitheater, Arlington National Cemetery, (a) Bix Island granite, (b) Narragansett, (c) Ston-

Federal Government Work (Continued)

ington, (d) Stone Mountain, (e) Concord, (f) Bedford Pink, from: Marble Arch. Co., New York, (a) $134,200, (b) $135,900, (c) $120,200, (d) $112,200; J. H. Parker Co., New York, (d) $114,950, (e) $116,950, (f) $139,950, (b) $130,650; G. A. Fuller Co., New York, (a) $112,500, (d) $102,000, (f) $130,000. Noted July 13.

Ohio, Cincinnati—Cement—U. S. Engineer Office received low bids for cement for repairing Dam 12, Kentucky River, from Kosmos Portland Cement Co., Inc., 614 Paul Jones Bldg., Louisville, $1.61; Louisville Cement Co., Louisville, $1.74; Universal Portland Cement Co., 522 Frick Bldg., Pittsburgh, $2.14.

Ohio, Cleveland—Stonework—Low bid received July 11, for stone superstructure on breakwater, Cleveland Harbor, Dillen Dock Dredge and Construction Co., Racine, Wis., $50,375. Noted June 22.

Minn., Winona — Mailing Platform — Government let contract repairs mailing platform in post office to F. BESELER, 1174 West 6th St., $6,725.

Mont., Malta—Structures—U. S. Reclamation Ser. let contract earth work and structures, Bowdoin Canal, Milk River Project, Schedule 1, to J. O'CONNOR, Malta, $21,743; Schedule 2, SECURITY BRIDGE CO., Minneapolis, $7,847. Noted July 13.

Mont., St. Ignatius—Irrigation—E. D. Covell, Ronan, $38,092, submitted lowest bid canals and structures on Flathead Project. E. F. Taber, Project Mgr., U. S. Reclamation Ser. Noted June 15.

Tex., Galveston—Boat Basin—Government rejected only bid. Noted July 20.

Wash., North Head—Radio Mast—Navy Dept. received low bids, Naval Radio Sta., from B. Ward, 513 31st Ave., Seattle, $7,290; Martin & Dugan Construction Co., Northern Bank Bldg., Seattle, $8,000; M. A. Benbennick, 718 8th St., Bremerton, $11,778.

Wash., Vancouver—Post Office—Government let contract to CAMPBELL BUILDING CO., Salt Lake City, Utah, $82,487. Noted July 20.

Ore., Umatilla—Canal Work—U. S. Reclamation Ser. let contract, Umatilla Project, to NEWPORT LAND AND CONSTRUCTION CO., Hermiston, $32,254.

Guam—Boilers, Etc.—Contract 2 boilers and stack for Naval Station let to E. KEELER CO., Williamsport, Penn., $18,624. Noted July 6.

CANALS, DITCHES AND IRRIGATION

Proposed Work

Mass., Newton—Drainage—Bd. Aldermen appropriated $6,000 to complete South Meadowbrook Drainage System.

N. Y., Albany—(Official)—Barge Canal Work—W. W. Wotherspoon, Supt. Pub. Wks., receiving bids Aug. 30 for improving New York State Canals, Contract No. 135, Erie Canal, Sect. 3, excavating point of land on south bank of Mohawk River between bridge and Dam No. 10 at Canajoharie. (See adv.)

N. Y., Albany—Barge Canal Work—Canal Bd. approved plans for Greenpoint Terminal, Brooklyn. About $193,500. E. S. Williams, Albany, State Engr. Noted July 20.

N. Y., Buffalo—Dredging—City and private corporations plan dredging channel in river basin. About $150,000.

N. C., Greenville—Drainage—Carolina Land and Development Co. making plans for drainage system to reclaim bottom lands of Clay Roof Creek, Pitt County. Elliott & Harman Engineering Co., 144 Fredonia Ave., Peoria, Ill., Engr.

Fla., New Smyrna—(Official)—Drainage—Lake Ashby Drainage Dist. receiving bids about Oct. 1 draining 48,000 acres. About $300,000. Clenralts & Keller, 233 East 2nd St., Jacksonville Engr.-in-Charge. Noted July 6.

Miss., Greenville—Drainage—Washington County organized Black Bayou Drainage Dist. to reclaim about 75,000 acres. Address County Clk., Greenville.

La., Alexandria — Drainage — Atchafalaya & Bayou Boeuf Levee Dist. soon makes surveys of Alexandria to Chatlains Lake Levee and completion of drainage survey from Three Prong Lake to Bayou Des Glaizes in Red River. Address State Bd. of Engrs., New Orleans Court Bldg., New Orleans.

Ind., Rochester—Ditches—Fulton County receiving bids Aug. 8. Address County Clk., Rochester.

Ill., Quincy—Reclamation—Lima Lake Drainage District made plans for reclamation work. About $300,000. E. T. Perkins Engineering Co., Engr.

Ill., Rockford—Drainage—Surveys made of Grove Creek District for drainage system. About $75,000. A. M. Ten Eyck and W. Nelly, Comrs.

Ill., Rock Island—(Official)—Drainage—Comr. Drury Drainage Dist., Rock Island County, soon receives bids for 9 mi. of levee along Mississippi River. Address Elliott & Harman Engineering Co., Peoria, Ill. (See adv.) Noted July 20.

Iowa, Ft. Madison—(Official)—Drainage—Lee County receiving bids Aug. 15 for levees and open ditches in Green Bay Levee and Drainage No. 2, Green Bay Township. A. P. Meyer, Ft. Madison, County Audr. (See adv.) Noted May 25.

Iowa, Ft. Madison—(Official)—Ditch and Levee—Bids soon, about 2,000,000 cu.yd. Suitable for drag-line, dipper and hydraulic or clam-shell dredge. G. B. Massey, Peoples Gas Bldg., Chicago Engr.

Iowa, Logan—Drainage—Harrison County plans to spend $85,000. Address County Clk., Logan.

Minn., Glencoe—Ditch—McLeod County making plans for Ditch No. 28. H. Von Hipple, Engr.

Minn., Glencoe—Ditches—McLeod County plans Ditches Nos. 29 and 30. F. D. Stocking, Audr.

Minn., Olivia—Ditch—Renville County making plans for Ditch No. 15. About $600,000. J. L. Johnson, Audr.

Minn., Olivia—Ditch—Comrs. Renville County receiving bids Aug. 15 for Ditches Nos. 59 and 67. L. C. Vader, Engr.

Minn., Olivia—Ditch—Renville County receiving bids Aug. 15 for County Ditch No. 63. About $365,000. J. L. Johnson, Audr.

Minn., Ortonville — Ditch — Bigstone County made plans for Ditch No. 12. A. V. Randall, Audr.

Neb., Rushville — Drainage — Horseshoe Lake Drainage Dist. receiving bids Aug. 15 for cleaning water course and ditch construction. About $20,000. P. E. Brown, 206 North Elm St., Gordon, Engr.-in-Charge.

N. D., Jamestown—Ditch—Stutsman County receiving bids Aug. 15 for Judicial Ditch No. 11. J. C. Jensen, Jamestown, County Audr.

Ark., South Bend—Drainage—F. O. Loudan making plans, about 19,000 acres, $40,000. White, Humphreys & Tovey, Little Rock, Engr.

Ark., Texarkana—Drainage—E. W. Frost and associates plan drainage district to reclaim about 12,000 acres near Homan.

Tex., Ballinger—Irrigation—C. A. Dailey, San Angelo, plans impounding reservoir on Oak Creek to irrigate 200 acres in Runnels County.

Calif., Lindsay—Irrigation—Bids received June 30 for irrigation works by C. W. Right, Secy., Lindsay Strathmore Irrigation District, rejected. New bids will be received. Stephen Kieffer, 57 Post St., San Francisco, Ch. Engr. Noted June 15.

Bids In and Contracts Awarded

N. Y., Albany—Barge Canal Work—W. W. Witherspoon, State Supt. Pub. Wks., received bids Terminal Contract No. 52, repairing and extending Pier 6, East River, New York, from Kaufman & Garcey, 51 Chambers St., New York, $91,317; G. W. Rogers & Co., Inc., 29 Broadway, New York, $93,189. Noted July 6.

Ind., Warsaw—(Official)—Ditch—County let contract to W. J. DILLINGHAM DREDGING CO., Warsaw, $7,700.

Mich., Ann Arbor—Ditch—County Drain Comr. let contract cleaning Black Creek Drain to E. L. MINER, Coldwater, $5,046.

Wis., Brodhead—Drainage—Contract Brooghton Drainage District let to WISCONSIN DRAINAGE CO., Elkhorn, $6,960.

Wis., Watertown—Ditch—Contract McHugh Town Ditch let to WISCONSIN DRAINAGE CO., Elkhorn, $4,499. Noted May 4.

Iowa, Emmetsburg—Ditch—County let contract Drainage Ditch No. 81, Des Moines River Open Ditch, to STERBURG BROS., St. Louis, Mo., $5.44 per cu.yd. Noted June 8.

Iowa, Nevada—Ditch—Bd. of Supervisors let contracts Milford Township Drainage Ditch No. 69 to MATHISON & SON, Nevada, $11,997 for labor, and MACOMB PIPE AND TILE CO., Macomb, Ill., $27,000 for material.

Iowa, Nevada — (Official) — Drainage — Story County let contract draining highways in northern Sherman Township and southern Lincoln Township for Highway Drainage Dist. No. 74 to BLAKEMORE & SCOTT, Nevada, $50,317. Noted July 13.

Minn., Ada—(Official)—Ditch—County let contract to R. M. LEE, Fertile, $4,575. Noted July 13.

Minn., Breckenridge—Ditch—Wilkens County let contract Ditch No. 1-B to NATIONAL DREDGING CO., Alexandria, $10,830.

Minn., Glencoe—Ditch—McLeod County let contract Ditch No. 27 to J. F. ALBRIGHT, Glencoe.

Minn., Montevideo—Ditch—Chippewa County let contract Ditch No. 11 to P. HALEY, Willmar.

Minn., St. Cloud—Ditch—Stearns County let contract Ditch No. 27 to POTTER DREDGING CO., Grand Rapids, Wis. About $21,692. Noted July 13.

Minn., St. Peter—Ditches—Comrs. Nicollet County let contract Ditches Nos. 54 and 58 to O. OLSON, 304 East 9th St., Blue Earth.

Minn., Walker—Ditches—Cass County let contract County Ditches Nos. 2 and 7 to E. E. GRIFFITH, Backus.

Mo., Clinton—Drainage—Pioneer Drainage District, Henry County, let contract main ditch, 9 mi. hnd 4 laterals, 2 mi., to A. V. WILLS, St. Louis, Mo. Noted July 6.

Wash., Tacoma—Dredging—Commercial Waterways Dist. No. 1 let contract, Hylebos Creek to TACOMA DREDGING CO., Tacoma, $97,[illegible] Noted Feb. 3.

Ore., Baker—Dam—Evans-Almirall Co., New York, let contract at Balm Creek Reservoir, Thief Valley irrigation project, to J. A. HOSKINS, Baker, about $11,000.

MISCELLANEOUS

Proposed Work

Mass., Malden—Subway—Boston & Maine R.R. plans subway under tracks at Malden Station. About $11,000. A. B. Corthell, Boston, Ch. Engr.

N. Y., New York—(Manhattan)—(Official)—Track Installation—Pub. Ser. Comn., 120 Broadway, receiving bids Aug. 10 on portion of Broadway-Fourth Ave. Rapid Transit R R.

N. J., Bayonne—Bulkhead—Bulkhead Meadow and Improvement Co. plans, 1st St. and Kill-von-Kull. Address Bd. City Com., Bayonne.

N. J., Hackensack—Piers—City retained Fred Dunham, City Hall, Jersey City, to make plans for piers on Hackensack River. Noted Feb. 17.

N. J., Union Hill—(Weehawken post office)—Fire House—City made plans, 1-story, 17x21-ft. addition. About $12,000. J. Lugesch, 21 Bergenline Ave., Arch.

N. J., Weehawken—Dock—North Hudson Chamber of Commerce plans dock along Hudson River. George Limouze, 43 Columbia Terrace, Weehawken, Secy.

Penn., Ambler—Elimination Grade Crossing—Philadelphia & Reading Ry. plans at Butler Ave. About $70,000. S. T. Wagner, Reading Terminal, Philadelphia, Ch. Engr.

Penn., Chambersburg—Swimming Pool and Locker Room—Wilson College making plans. About $8,000. Furness, Evans & Co., Provident Bldg., Philadelphia, Arch.

Penn., Ebensburg—Park Auditorium—Dauntless Fire Co. making plans, 2-story, 60x120-ft. About $20,000. J. Riley Gordon, 507 5th Ave., New York, Arch.

Penn., Mt. Lebanon—Tunnel—D. Yost, C. W. Scheck and E. W. Beach applied to State Com., Harrisburg, for incorporation of Peoples' Tunnel Co. to build tunnel from South Aide to South Hills.

Penn., Wilkinsburg—Market—Wilkinsburg Public Market Co. plans, Franklin Ave. and Mulberry St. J. M. Lindsay, 716 Lamar St., interested.

Md., Baltimore—Bulkhead—City plans bulkhead to reclaim 10 acres at foot of McComas St. About $30,000. H. Kent McCay, City Hall, Harbor Engr.

D. C., Washington—Mausoleum—Zeelopi Estate made plans, 1-story. About $25,000. Murphy & Olmsted, 1413 H St., N. W., Arch.

N. C., Beaufort—Seawall—City to issue bonds. Noted Feb. 17.

Miss., Biloxi—Seawall—City has made plans to protect beach front, plan 1, $205,177, plan 2, $123,672. J. D. Ferguson, City Engr. Noted June 8.

Miss., Gulfport—Breakwater—Bd. County Supervisors receiving bids Aug. 7 for protection breakwater with necessary earth work along sea coast of Harrison County. J. F. Galloway, Gulfport, County Engr.

Tenn., Chattanooga—Flood Prevention—Knight & Quayle, Consult. Engr., retained by local real estate interests to report on flood prevention and land drainage in connection with Tennessee River and Chattanooga Creek.

Tenn., Knoxville—Park Improvements—City making plans. About $50,000. Noted May 11.

Ohio, Dayton—Fire Station—City plans, 2-story, $20,000. G. A. Niehus, 25 Callahan Bldg., Arch.

Ohio, Lakewood—Park Improvements—City voted $150,000 bonds. E. A. Fisher, City Engr.

Ind., Ft. Wayne—Fire Station—City plans, 10th Ward. About $15,000.

Ind., Ft. Wayne—Retaining Wall—City making plans, along St. Joe River from State St. F. M. Randall, City Engr.

Ind., New Albany—River Front Improvement—Bd. Pub. Wks. plans. About $10,000. S. T. Mann, City Engr.

Iowa, Ft. Madison—Levees and Ditches—City plans levees and ditches, 2,000,000 cu.yd. G. B. Massey Co., Peoples Gas Bldg., Chicago, Engr.

Iowa, Muscatine—(Official)—Levee—Elliott & Harman Engineering Co., Peoria, Ill., making surveys along Mississippi River near Muscatine, about 23 mi. Noted Sept. 23.

Mo., Kansas City—River Improvements—Bd. Pub. Wks. making surveys and plans for improving Blue River. About $100,000. Harrington, Howard & Ash, Kansas City, Engr.

Ark., Hot Springs—Grandstand, Stables, etc.—Essex Park Racing Association plans. About $15,000. Address S. J. Davis, Hot Springs.

Tex., Beaumont—Docks—City soon votes on $45,000 bonds to complete dock system.

Okla., Oklahoma—Flood Protection—County plans to straighten channel North Canadian River from Oklahoma to Harrah, 170 mi. Address County Clk., Oklahoma.

Miscellaneous (Continued)

Bids In and Contracts Awarded

Mass., Falmouth—Breakwater—Harbor and Land Comn., Boston, received low bids, Waquoit Bay, Falmouth, from J. R. Burke, 78 Devonshire St., Boston, $2.95 ton for stone for breakwater; $3.95 ton for stone for wall; $4.90 lin.ft. piles and lumber.

N. Y., New York—(Bronx)—(Official)—Subway—Pub. Ser. Comn. let contract railroad duct line for Seventh Ave.-Lexington Ave. Rapid Transit R R. to T. H. REYNOLDS CONTRACTING CO., INC., 13 Park Row, $10,007. Noted July 20.

Fla., Jacksonville—Dock—Bd. Port Comrs. let contract to C. T. DAWKINS, Jacksonville, $20,540.

Ohio, Cleveland—Elimination of Grade Crossing—New York Central R R. let contract steel and erection to KING BRIDGE CO., East 69th St. About $70,000.

Ill., Chicago—Foundation and Dock Work—J. V. Farwell & Co., Adams and Franklin St, let contract to RUUD-NILSEN CO., 140 South Dearborn St. About $100,000.

Wis., Milwaukee—Retaining Wall—Bd. Park Comrs. let contract along South Shore Park to EDWIN GILLEN & CO., $106,000. G. Staal, City Engr. Noted July 20.

Neb., Lincoln—Amusement Pavilion—City let contract, 2-story, 80x100-ft., to R. O. STAKE, 346 North 28th St. About $25,000.

Tex., Galveston—(Official)—Bulkhead—County let contract to M. C. BOWDEN, Galveston, $37,712. Noted July 6.

Calif., Venice—Bulkhead—City Council received bids July 10 for bulkhead along shore from Vista to Salt Air St. from Braum, Bryant & Austin, 1680 South 4th St., Santa Monica, $125.000, J. D. Kneen Contracting Co., Dudley Bldg., Santa Monica, $126,000, H. W. Schleuter, Ocean Park $126,640. Noted June 29.

B. C., Vancouver—Filling, Etc.—Canadian Northern Railway System let contract filling, etc., at head of False Creek, requiring 2,500,000 yd. of material and seawall to PACIFIC DREDGING CO., Vancouver. S. J. Hangerford, Toronto, Ont., Supt.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Mass., Athol—Library—Chn. Bldg. Com. receiving bids Aug. 5 for Carnegie Library. W. H. & H. McLean, 110 Tremont St., Boston, Arch.

N. Y., New York—(Manhattan)—Loft Building—I. R. Jacobs, C. H. Leland and A. E. Flint, 30 East 42d St., made plans, 16-story, 160-4 Madison Ave., about $550,000. Rouse & Goldstone, 38 West 32d St., Arch.

Md., Baltimore—Home—St. Elizabeth's Home plans, 3-story, about $150,000. Baldwin & Pennington, 330 North Charles St., Arch.

Va., Richmond—Store Building—J. B. Mosby & Co. making plans, 6-story, Broad and Jefferson St., about $150,000. Carneal & Johnston, Richmond, Arch.

W. Va., Charleston—Office—Kanawha Banking and Trust Co. plans, 10-story. F. Staunton, Pres.

Ga., Savannah—Auditorium—City receiving bids Aug. 16. About $150,000. Henrik Wallin, 23 Abercorn St., Arch. Noted May 11.

Fla., Miami—Church—First Baptist Church lets contract about Aug. 15, $65,000. Address J. H. Tatum, Miami. Noted June 22.

La., Shreveport—Sanitarium—Dr. Hendricks interested, 4-story, brick. About $80 000.

Tenn., Chattanooga—Church—First Baptist Church plans addition. About $40,000.

Tenn., Mufreesboro—High School—City votes Sept. 9 on $75,000 bonds. Noted July 20.

Ohio, Coshocton—School—Bd. Education receiving bids Aug. 8. F. L. Packard, Hayden Bldg., Columbus, Arch. Noted July 20.

Ohio, Lima—School—City votes Aug. 8 on $490,000 bonds. McLayghin & Hulsken, Lima, Arch.

Ohio, Middletown—High School—Bd. Education receiving bids Aug. 8, 2-story. About $200,000. Noted July 20.

Ind., Bloomington—School—Bloomington Township receiving bids Aug. 7. J. R. McDaniel, Trustee.

Ill., Springfield—School—School Bd. receives bids Aug. 8 for $100,000 bonds.

Minn., Tofte—School—School Dist. No. 7 receiving bids Aug. 5. Kelly & Williams, 404 First National Bank Bldg., Duluth, Arch.

Kan., Vinland—High School—Bd. of Education receiving bids Aug. 8. T. W. Williamson & Co., Topeka, Arch.

N. D., Robinson—School—Lincoln School Dist. No. 4 receiving bids Aug. 11. C. J. Wicks, Clk. G. R. Horton, Arch.

Calif., Woodland—(Official)—Courthouse—Yolo County receiving bids Aug. 14. About $200,000. H. R. Saunders, Woodland, County Clk. Noted July 13.

Que., Montreal—Deaf and Dumb Institute plans building on St. Lawrence Blvd., about $280,000. Gauthier M. Dacust, 180 St. James St., Arch.

Bids In and Contracts Awarded

Maine, Sanford—(Official)—High School—City let contract to A. F. WARREN & SON, Auburn, $46,444. Noted Mar. 23.

N. Y., Purchase—Community Building—Town let contract to F. N. GOBLE, 1 East 42nd St., New York, about $100,000. Noted July 20.

Penn., Chambersburg—Penn Hall Preparatory School let contract gymnasium, swimming pool and dormitories to C. E. CUMP, 142 Park Ave. About $25,000.

Fla., Seabreeze—Hotel—Clarendon Hotel let contract addition to G. A. FULLER CO., Fuller Bldg., New York.

La., Monroe—Temple—Western Star Lodge No. 24, F. & A. M., let contract to BURKES CONSTRUCTION CO., INC., Hattiesburg, about $70,000. Noted May 4.

Tenn., Chattanooga—Office—Volunteer Life Insurance Co. let contract, 12-story, to H. D. WATTS & CO., Atlanta. About $330,000. Noted Feb. 24.

Ind., Anderson—(Official)—Y. M. C. A. let contract 4-story building to P. H. LORENZ, Moline, Ill., $133,340. Noted June 29.

Mich., Ann Arbor—Library—University Michigan let contract to SELDENBRECK CONSTRUCTION CO., about $350,000. Noted June 8.

Ill., New Berlin—High School—Bd. Education let contract to J. LORSCHUDER, Springfield. Noted June 29.

Wis., Superior—Theater—Palace Theater let contract to A. DAUPLAISE, $100,000.

Minn., Hibbing—Courthouse—City let contract to HUGH FAWCETT, Duluth, $78,495. Noted July 13.

Neb., Lincoln—(Official)—University of Nebraska rejected bids received July 22 for building J. S. Dales, Secy., Bd. of Regents. Noted July 6.

Neb., Omaha—School—Rasmussen Construction Co., Woodmen of the World Bldg., low bidder for 2-story Bancroft School. About $80,000.

Wyo., Basin—Hospital—Contract Carter Hospital let to W. W. SPROUT, Casper, $48,976.

Ark., Greenwood—Courthouse—City let contract to T. T. REDDICK, Ft. Smith, $62,500. Noted July 13.

Tex., El Paso—Cathedral—Contract St. Patrick's Cathedral let to KROGER, MAYFIELD & SHAW CO. About $150,000

Okla., Muskogee—C. W. Raymond let contract business building to C. L. DICKMAN, Muskogee, $40,000.

Idaho, Wallace—Bank—First National Bank let contract, 2-story, 50x50-ft., to WASHINGTON CONSTRUCTION CO., Northern Bank Bldg., Seattle, Wash. About $50,000.

SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until Aug. 15, 1916.

Street Improvement

Albemarle, N. C.

Sealed proposals will be received for the materials and labor in connection with the improvement of certain streets of the Town of Albemarle, N. C., by the Mayor and Board of Aldermen of said Town, until three (3) o'clock P.M. of Tuesday, August 15th, 1916, when they will be opened and publicly read.

The specifications cover sheet asphalt, bituminous concrete, brick and durax block, and in addition to the above, proposals will be considered upon other types of pavements. Work contemplated will also include grading, furnishing, placing and constructing granite curb; vitrified brick and concrete gutters; concrete curb and gutter, and the installation of storm drains.

Bids are asked upon approximately 25,000 square yards of pavement, with alternative bids upon approximately 50,000 square yards. The pavement will be constructed from one or more of the classes mentioned above as may be selected by the Town, and the entire work to be done will be awarded under one or more contracts as the Town may elect.

Plans and specifications may be examined at the office of the Town Clerk or at the offices of the Engineers. Specifications may be obtained by prospective bidders by addressing the Engineer in Charge at Albemarle or the Consulting Engineers at Wilson, N. C., and making a deposit of $10.00, which deposit will be refunded upon the return of the specifications in good condition.

Each proposal must be accompanied by a certified check in the sum of five (5%) per cent. of the amount bid, as evidence of good faith upon the part of the bidder.

The Town reserves the right to reject any or all bids or accept any which may seem to it to be the best interest of the Town of Albemarle.

M. J. HARRIS, Mayor.
E. L. HEARNE, Clerk.
J. D. SPINKS, Engineer in Charge.
ANDERSON & CHRISTIE, INC.,
Consulting Engineers, Charlotte, N. C.

* * *

Bids received until Aug. 18, 1916.

Refuse Destructor

City of New Rochelle, N. Y.

Sealed Proposals will be received by the Commissioner of Public Works of the City of New Rochelle, N. Y., until Eleven o'clock on the morning of August 18th, 1916, for the Construction of Refuse Destructor, in accordance with specifications now on file in said office.

Each bidder must furnish his own design and detailed specifications of the plant he proposes to build.

The proposals must be accompanied by a certified check for two thousand five hundred ($2,500.00) Dollars, payable to the Commissioner of Public Works, the same to be forfeited to the Commissioner if the person or persons to whom the Contract may be awarded shall neglect or refuse to execute the same within five days after notification by the Commissioner that his or their proposal has been accepted.

The right is reserved to reject any and all bids.

JOHN A. HADERT,
Commissioner of Public Works.
New Rochelle, N. Y., August 2, 1916.

* * *

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., August 1, 1916.—Sealed proposals will be opened in this office at 3 p.m., October 2, 1916, for mail-handling devices, etc., in the United States post office at Denver, Colo., in accordance with specification and drawing, copies of which may be obtained at this office, in the discretion of the Supervising Architect. JAMES A. WETMORE, Acting Supervising Architect.

GATE-OPERATING MACHINERY—U. S. Engineer Office, Wheeling, W. Va.—Sealed proposals will be received here until 11 a.m. (Eastern time), August 14, 1916, and then opened, for furnishing and delivering gate-operating machinery at Dams Nos. 16 and 17, Ohio River. Information on application.

SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until Aug. 9, 1916.

Water and Electric Lighting Systems

Glasgow, Mont.

Sealed bids will be received by the Board of County Commissioners of Valley County, State of Montana, at the office of the County Clerk and Recorder and ex-Officio Clerk of the Board of County Commissioners of said county, up to two o'clock P.M., on the 9th day of August, 1916, for the construction and installation of a complete water system and electric lighting system, consisting of one (1) building 27x30 feet in size; one (1) reinforced-concrete reservoir; approximately 6,150 feet of eight (8) inch wood stave pipe; approximately 7,550 feet of four (4) inch wood stave pipe; approximately 1,860 feet of six (6) inch wood stave pipe; approximately 4,125 feet of four (4) inch cast-iron pipe; approximately ten (10) hydrants; three (3) eight (8) inch valves; two (2) six (6) inch valves; two (2) four (4) inch valves; two (2) twenty-five (25) HP. crude oil engines; one 37½ K.V.A. generator and switchboard and power line; one (1) eight (8) HP. oil engine and 125-gallon pump, and fifteen (15) street lights, pole line and wiring in the Hinsdale Special Water and Electric Light Improvement District No. 1, in Valley County, State of Montana, all according to the plans and specifications on file in the office of the Clerk and Recorder and ex-Officio Clerk of the Board of County Commissioners of Valley County, State of Montana, at the town of Glasgow, Montana, and the office of H. H. Alvis, Consulting Engineer, at Malta, Montana.

All bids must be accompanied by a certified check for ten (10) per cent. of the amount bid. The Board of County Commissioners reserves the right to reject any or all bids.

By order of the Board of County Commissioners of Valley County, State of Montana. W. B. SHOEMAKER,
Clerk and Recorder and ex-Officio Clerk
of the Board of County Commissioners
of Valley County, State of Montana.

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Bids received until Aug. 15, 1916.

Levees and Open Ditches

GREEN BAY LEVEE AND DRAINAGE DISTRICT NO. 2.

Fort Madison, Iowa.

Sealed bids will be received in County Auditor's office in Fort Madison, Iowa, until 10:00 o'clock A.M. on the 15th day of August, 1916, for the construction of the levees and open ditches in the Green Bay Levee and Drainage District No. 2, Green Bay Township, Lee County, Iowa, according to plans and specifications on file in the Auditor's office, divided as follows:

Sections	Cubic Yards	
No. 1. Levee along roadway in Sections 4-5, Twp. 68 N., Rg. 3 W.	12,000	
(To be completed on or before May 1st, 1917. Scraper work.)		
No. 2. Skunk River Levee to Peel Slough	246,300	
Lost Creek Levee above elevation 524	56,600	
Ditches above elevation 524	129,700	
		432,600
(To be completed on or before December 31, 1917. Best fitted for dragline machine 60 to 80 foot boom, 2½-yard bucket.)		
No. 3. Muck Ditch under Mississippi River levee	179,800	
Ditches below elevation 524, except ditch marked Main "A" on plat	95,900	
		275,700
(To be completed on or before December 31, 1917. Best fitted for small dipper dredge, 1 or 1¼ yard.)		
No. 4. Lost Creek Levee below elevation 524, Mississippi River Levee; Skunk River Levee from Pool Slough to Station "O"	1,048,100	
(To be completed on or before May 1, 1918. Best fitted for hydraulic dredge or clamshell, 125 foot boom, 4½-yard bucket.)		
No. 5. Main "A" as marked on plat	66,900	
		1,115,000
(To be completed on or before May 1st, 1918. Best fitted for small dipper dredge; 1 or 1¼ yard.)		
Total cubic yards		1,835,300

(Levee work includes clearing base of timber, sheet piling and riprapping.)

The Board shall award contract or contracts for each section of the work to the lowest responsible bidder or bidders therefor, bids to be submitted, received and acted upon separately as to the levees, main drain and each of the laterals, exercising their own discretion as to letting such work as to the levees and main drains as a whole, or to each lateral as a whole, or by sections as to both levees, main drains and laterals, and reserving the right to reject any and all bids and readvertise the letting of the work. Each person bidding for such work shall deposit in cash or certified check a sum equal to ten per centum of the amount of the bid, not in any event, however, to exceed ten thousand dollars, said deposit to be returned to him if his bid is not successful, and if successful to be retained as a guarantee only of his good faith in entering on said contract. The successful bidder shall be required to execute a bond with sufficient sureties in favor of the County for the use and benefit of the levee and drainage district, in an amount equal to twenty-five per centum of the estimated cost of the work so let, or he may deposit such amount in cash with the Auditor as security for the performance of his contract, and upon the execution of such bond, or the making of such deposit, the deposit originally made with his bid shall be returned to him.

Bids upon the work as a whole will be considered.

Funds on hand for cash payment of monthly estimates.

Ample electric power is available at low rates.

The estimated total cost is about $260,000.00.

Special facilities for seeing the work will be provided on Monday, July 31st; Monday, August 7th, and Monday, August 14th, starting from Hotel Anthes, Fort Madison, Iowa, at 9:00 A.M.

Plans and Specifications will be furnished by Edmund T. Perkins, 1211 First National Bank Building, Chicago, Illinois, upon deposit of $20.00, which deposit will be refunded upon return of the Plans and Specifications in good order within ten days after awarding of contract.

A. P. MEYER, Auditor,
Lee County, Iowa.

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Bids received until Aug. 8, 1916.

Water Supply

Oxford, N. Y.

Sealed proposals for Water Supply for New York State Women's Relief Corps Home, Oxford, N. Y., will be received by Mrs. Georgiana Griffith, President, Board of Managers, Women's Relief Corps Home, Oxford, N. Y., until 2:30 o'clock P.M. on Tuesday, August 8, 1916, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent. (5%) of the amount of proposal. The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent. (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specification No. 2301, and Addenda dated July 5, 1916. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the Women's Relief Corps Home, Oxford, N. Y., at the New York Office of the Department of Architecture, Room 1224 Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

July 18, 1916.

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Drury Drainage District

Rock Island County, Illinois.

NOTICE TO LEVEE CONTRACTORS

Peoria, Ill.

Sealed bids will be received by the Commissioner of the Drury Drainage District, Rock Island County, Illinois, for the repair and rebuilding of about nine miles of levee along the Mississippi River. This work can be done by hydraulic dredge.

For further information address Elliott & Harman Engineering Co., Peoria, Illinois.

Construction News

RAILWAYS, STEAM AND ELECTRIC

Proposed Work

New York—International Railway Co. petitioned Council, Lockport, for franchise to construct double-track line on Hawley St. and West Ave. G. W. Wilson, Buffalo, Treas.

Pennsylvania—H. G. Rambo, H. I. Schotter, W. J. Elliott and associates, Coatesville, to apply to Council for charter for railway from Modena to Coatesville, 10 mi.

Pennsylvania—Eastern Pennsylvania Rys. plans extension from Tamaqua to Reading. W. B. Rockwell, Pottsville, Gen. Mgr.

Virginia—Baltimore & Ohio Railroad Co. made surveys for branch line from Winchester westward via Gainsboro, Gore and Back Creek Valley to Wardensville and Los River Valley, West Virginia. F. L. Stuart, Baltimore, Ch. Engr.

North Carolina—Whiteville Lumber Co. plans line from Whiteville to point on Seaboard Air Line Ry., also to complete line between Whiteville and Reaves Ferry.

Florida—W. Hall, St. Cloud, interested in interurban railway from Melbourne to St. Cloud and Sanford, about 100 mi., right-of-way now being secured. Wylie & Reynolds, St. Cloud, Engr.

Florida—Florida Central & Gulf Ry. applied for charter with $200,000 capital stock for railway from Hernando in Citrus County north to Rockwell and west to Inglis 34 mi. C. A. Carpenter and H. W. Purvis, Jacksonville, interested.

Florida—Miami Traction Co. making surveys for line on Waddell St. and Biscayne Dr. B. B. Tatum, interested.

Alabama—L. A. May, Norwood, Birmingham, plans railway from Mobile to Florence, 380 mi., about $20,000,000. J. A. Montgomery, Mobile, Engr.

Ohio—Cleveland Railway Co. granted permission by Council to extend tracks on Pearl Rd. 2 mi., about $52,800. G. L. Radcliffe, Cleveland, Gen. Mgr.

Ohio—Dover, Millersburg & Western Ry. soon lets contracts for grading line from Dover to Millersburg, 37 mi. B. George, Dover, Secy. Noted Nov. 18.

Ohio—Northern Ohio Traction Co. granted permission by State Utilities Comn., Akron, to issue about $15,000,000 bonds, $2,000,000 to be used for improvements at Akron, Canton and other cities. C. Currie, Akron, Gen. Mgr. Noted July 6.

Ohio—Pennsylvania Lines West of Pittsburgh plans to enlarge freight yards at Lowellville, Struthers and Youngstown. T. Rodd, Pittsburgh, Ch. Engr.

Indiana—Baltimore & Ohio Southwestern R.R. made surveys for line from Washington to Louisville. F. L. Stuart, Baltimore, Md., Ch. Engr.

Michigan—Detroit United Ry., Detroit, plans new car line to Royal Oak. F. W. Brooks, Detroit, Gen. Mgr.

Illinois—Chicago & Joliet Electric Railway Co. to spend $20,000 for improving North Collins St. line, Joliet. J. R. Blackhall, Joliet, Gen. Mgr.

Illinois—(Press)—La Salle County Electric Railway Co. to revive project for railway from Ottawa to Mendota. W. C. Vittum, Ottawa, interested.

Kansas—Joplin & Pittsburg Electric Railway Co. plans extension from Columbus, Kan., to Commerce, Okla. W. A. Satterlee, Pittsburg, Gen. Mgr. and Pur. Agt.

Kansas—Leavenworth & Topeka Ry. purchased by Kansas City Capitalists who plan to electrify same to connect with Santa Fe System at Nortonville and Valley Falls.

Arkansas—S. Q. Server and P. K. Mason granted franchise by Council, Camden, to construct railway. Noted July 6.

Texas—Greenville & Northeastern Railway Co. plans to build line and electrify same. H. A. Barsun, Anna, Gen. Mgr.

Texas—Lubbock & Great Northern Railroad Co. incorporated with $150,000 capital, plans line from Lubbock to connection with Missouri, Kansas & Texas Ry. in Collingsworth County. J. M. Elliott and F. V. Leak, Lubbock interested.

Texas—North Texas & Santa Fe Railroad Co. incorporated with $100,000 capital, plans line from Hansford County, Tex. to Ellis County, Okla., about 75 mi. E. P. Ripley, Chicago, Ill., interested.

Oregon—W. S. Ross, Chicago, Ill., submitted proposition for railway from Crane to Burns.

Arizona—Olgonkian Mining Co., Prescott, plans narrow gage railway from Bradshaw Mt. Ry. to mining property, 4½ mi. G. E. Shurtleff, Prescott, Mgr.

Oregon—Southern Pacific Ry. to spend about $300,000 for 37 mi. 90-lb. steel rails on main line between Sutherlin and Divide. W. Hood, San Francisco, Ch. Engr.

California—Pacific Electric Railway Co. plans line from Crafton to Greenspot, 3 mi. J. McMillan, Los Angeles, Gen. Mgr.

California — Northern Electric Railway Co. granted franchise by Council, Sacramento, to construct line through city. W. A. McGowan, Sacramento, Gen. Mgr.

Ontario—London & Port Stanley Railway Co. plans to double-track its lines. J. E. Richards, London, Mgr.

Ontario—Toronto Ry. plans to rebuild tracks on Queen St. between Brock and Roncesvalles St. R. J. Fleming, Toronto, Gen. Mgr.

Manitoba—Winnipeg Electric Ry. plans single-track line on Levis St., Winnipeg. W. Phillips, Winnipeg, Ch. Engr.

Bids In and Contracts Awarded

Pennsylvania—Lehigh & New England R.R. let contract line from Bath to Benders Junction to F. H. CLEMENT CO., Philadelphia. Noted June 29.

West Virginia—Monongahela Valley Traction Co. let contract for extension from O'Neil to Wolf Summit to KEELEY BROS., Clarksburg. Noted May 4.

Ohio—Pennsylvania Lines West of Pittsburgh let contract 15 mi. double-track line between Columbus and Lewis Center to C. R. CUMMINS CO., INC., 606 City Hall Sq. Bldg., Chicago.

Michigan—Grand Trunk Ry. System, Montreal, Que., let contract improving freight terminals at Quebec to P. T. CLIFFORD & SON, Valparaiso, Ind. Noted May 25.

Wisconsin—Wisconsin & Northern R.R. let contract grading line from Shawano to Black Creek to P. W. O'CONNOR & CO., Grand Rapids. Noted July 20.

Alberta—Canadian Pacific Ry. let contract extension from Pakowki to Manyberries, 19 mi., to GRANT, SMITH & McNAMARA, Calgary.

LIGHT, HEAT AND POWER

Proposed Work

N. Y., Lynbrook—J. A. Dayton interested in installing municipal electric-light plant.

N. Y., Oswego—City election Aug. 17 to vote on $345,000 power plant bonds. Noted Mar. 9.

N. J., Freehold—Monmouth Lighting Co. granted permission to issue $26,500 bonds for improving system.

N. J., Hightstown—Bd. Pub. Utility Comrs. granted Hightstown Gas Co. permission to install gas system.

Penn., Harwood—Harwood Electric Co. plans 1-story addition to power plant. Schofield Engineering Co., Commercial Bldg., Philadelphia, Engr.

Penn., Wayne—Borough Improvt. Com. plans installing street-lighting system.

W. Va., Martinsburg—Potomac Light and Power Co. will succeed Martinsburgh Power Co. and plans to improve hydro-electric plant. About $100,000.

Ala., Opelika—Alabama Power Co. plans transmission line from Alexander City to Opelika, and substation at Opelika. W. M. Wamsley, Birmingham, Gen. Mgr.

Miss., Baldwyn—City plans electric-light plant.

La., Crowley—See item under "Water-Works."

Ohio, New Philadelphia—(Official)—Dir. Pub. Ser. receiving bids Aug. 15 for one 200-hp. water-tube boiler. J. E. Scott, Dir. Noted May 4. (See adv.)

Ohio, St. Marys—City Council authorized $45,000 bond issue for rebuilding electric-light plant. Noted Mar. 2.

Ind., Gary—Calumet Electric Co. plans to improve and extend transmission line. About $75,000.

Ill., Hebron—Village granted franchise to L. E. Myers Co. to install electric-light system.

Iowa, Bellevue—City sold $14,000 electric-light bonds.

Iowa, Kinsley—Iowa Light, Heat and Power Co. granted franchise for electric-light and power system.

Iowa, Lake Mills—Local electric-light plant sold to H. Merrifield who plans to remodel and improve same.

Minn., Middle River—Village granted franchise to Petersen & Loveid to install electric-light plant.

Kan., Iuka—City will issue bonds for electric-light system.

Kan., Jennings—Citizens voted $20,000 electric-light plant bonds. C. W. Shook, City Clk. Noted June 22.

Kan., Netawaka—City voted $8,000 bonds for electric-light system. Noted July 6.

Kan., Olpe—City plans electric-light and power plant.

Kan., Stockton—City plans improving electric-light plant. G. P. Taylor, Stockton, Engr.

Neb., Dixon—Town plans electric-light plant. B J. Flaherty, Clk.

Neb., Valentine—Cornell Hydro-Electric Co. making plans for extending system. H. L. Campbell, Secy.

Mont., Carter—Montana Power Co., Butte, plans to extend transmission lines to Carter. F. M. Kerr, Butte, Gen. Supt.

Mo., Ravenwood—Maryville Electric Light and Power Co. granted franchise for transmission line and distribution system and furnish current to city.

Mo., St. Joseph—City votes Sept. 27 on $85,000 bonds for rebuilding electric-light plant. Stevens & Stiles, 222 Commerce Bldg., Kansas City, Engr. Noted June 29.

Ark., Paragould—Marwell Electric Light and Power Co. plans electric-light plant, about $15,000. R. M. Mathis, Caldwell, Engr.

Ark., Portland—Franchise granted to B. O. Cummings to construct electric-light plant.

Tex., Tahoka—City granted E. L. Howard franchise for electric-light and power plant.

Okla., Lamont—City Council soon votes on electric-light franchise.

Colo., Boulder—Western Light and Power Co. plans to improve system. About $200,000. H. U. Wallace, Vice-Pres.

Ont., Calabogie—M. J. O'Brien, Renfrew, plans power plant at Calabogie.

Bids In and Contracts Awarded

Mass., Amesbury—Merrimac Valley Water Power Co. let contract power plant to H. P. CUMMINGS CONSTRUCTION CO., Ware.

Penn., Puxsutawney—Jefferson Electric Co. let contract dam across Mahoning Creek to McGOVERN CONSTRUCTION CO.

Minn., Blue Earth—City let contract improving and extending electric-light system, to J. G. ROBERTSON, 2442 University Ave., St. Paul. About $15,000. Noted Apr. 6.

Kan., Dighton—City let contract electric-light plant and water-works to EVERETT & BURT, Hutchinson, $25,500.

Neb., Burkett—Soldiers and Sailors Home let contract extension to power plant to L. W. POMERENE CO., Lincoln, $7,790.

Tex., Austin—City let contract improving power plant to TRINITY CONSTRUCTION CO., Dallas, $4,230.

BRIDGES

Proposed Work

Maine, Kingfield—Town plans to rebuild Stanley Brook Bridge.

Mass., Springfield—City plans to strengthen North End and Old Toll Bridges, about $40,000. F. H. Clark, City Engr.

Conn., New Haven—City soon receives bids for Tomlinson Bridge over Quinnipac River on Forbes Ave., about $500,000. E. L. Ford, City Engr. E. W. Wiggin, 113 Church St., Consult. Engr.

N. Y., Albany—J. F. Lape, 36 State St., interested in bridge over Hudson River between 2nd and Ten Broeck St., about $2,500,000.

N. Y., Buffalo—City soon receives bids for bascule bridge over Buffalo River on Abbott Rd. G. H. Norton, City Engr.

N. J., Newark—Bd. Freeholders Essex County soon receives bids for improving Lincoln Highway Bridge. Address Clk., Newark.

Penn., Bellefonte—Center County soon receives bids for bridge in Gregg Township. H. W. Meyers, Bellefonte, Clk.

Penn., Media—(Official)—Delaware County receiving bids Aug. 21 for rein.-con. arch bridge on Chichester Ave. over branch of Naamans Creek, Upper Chichester Township. O. L. Davis, Media, County Controller. (See adv.)

Penn., Norristown—Montgomery County plans to repair bridge over Schuylkill River, about $26,000. J. Cresson, Norristown, County Engr.

Md., Crisfield—City plans repairing draw bridge over Little Annamessix River.

Va., New Castle—(Official)—Craig County receiving bids Aug. 15 for rein.-con. bridge over Petts Creek. G. P. Coleman, Richmond, State Highway Comr.

Bridges (Continued)

Va., North View—Town will issue $24,000 paving bonds. J. R. Talkington, Clk.

Va., Surry—(Official)—County receiving bids Aug. 18 for steel bridge across Gray's Creek. Address County Clk., Surry.

W. Va., Hanover—(Official)—County is not receiving bids Aug. 1 for rein.-con. bridge as noted in July 27 issue.

W. Va., Ronceverte—Chesapeake & Ohio Ry. plans viaduct on Walnut St., about $35,000. F. I. Cabell, Richmond, Ch. Engr.

N. C., Mt. Holly—Mecklenburg County, Charlotte, and Gaston County, Gastonia, plans to rebuild bridge at Mt. Holley Ferry, about $15,000. Address County Clk., Mt. Holly.

N. C., Newton—Catawaba County plans to rebuild bridges destroyed by floods, address County Clk., Newton.

N. C., Statesville—Iredell County plans to rebuild bridges destroyed by floods. Address County Clk., Statesville.

N. C., Wadesboro—Anson County plans to rebuild 21 bridges destroyed by floods. Address County Clk., Wadesboro.

S. C., Gaffney—Cherokee County plans to repair and rebuild bridges damaged by floods, about $70,000. Address County Clk., Gaffney.

S. C., Yorkville—York County plans to rebuild bridges destroyed by floods, about $10,000. Address County Clk., Yorkville.

Fla., Clearwater—(Official)—Pinellas County receiving bids Sept. 5 for Anchlote River Bridge. C. W. Wiecking, Clearwater, County Clk. (See adv.)

Fla., Miami—Dade County election Aug. 22 to vote on $600,000 bonds for bridge over Biscayne Bay. Address County Clk., Miami. Noted Aug. 3.

Fla., Pensacola—Escambia—Santa Rosa Bridge Co. to organize to build steel bridge, 2½ mi. long, over Escambia River at Ferry Pass between Escambia and Santa Rosa Counties. Address H. W. Thompson, Milton, Clk. Circuit Court Santa Rosa County.

Fla., Titusville—Brevard County receives bids about September for bridge between Merritt Island and mainland, about $75,000. Address County Clk., Titusville. Noted June 29.

Ala., Dothan—Bd. Revenue Houston County to spend about $7 200 for repairing bridges. Address Clk., Dothan.

Ala., Eufala—Bd. Revenue, Barbour County, receiving bids Aug. 24 for 2 steel bridges with rein.-con. floors. Address County Clk., Clayton.

Ala., Mobile—Mobile County Revenue and Rd. Comrs. receiving bids Aug. 14 for steel bridge. C. A. Alvarez, Mobile, Clk.

Ala., Tuscaloosa—Bd. Revenue, Tuscaloosa County, to spend $10,000 for 1 steel bridge and 5 concrete bridges. Address County Clk., Tuscaloosa.

Miss., West Point—Clay County plans $30,000 bond issue for roads and bridges. L. J. Howard, West Point, Clk.

La., Rayville — See item under "Streets and Roads."

Ky., Ludlow—City soon receives bids for Elm St. Viaduct, about $26,000.

Ohio, Canton—(Official)—Stark County receiving bids Aug. 14 for Wabash Ave. Bridge abutments over Sugar Creek. W. C. Schick, Canton, Clk.

Ohio, Cincinnati—Hamilton County receiving bids Aug. 18 for repairing bridges Nos. 15 and 16 on Nordyke Rd. A. Reinhardt, Cincinnati, Clk.

Columbus—City voted $25,000 bonds for repairing Rich St. Bridge. H. Maetzel, City Engr.

Ohio, Columbus—County receiving bids Sept. 1 for bridge work per Estimate No. 328. John Scott, Columbus, Clk.

Ohio, Columbus—County receiving bids Aug. 25 for bridge work per Estimate No. 316. John Scott, Columbus, Clk.

Ohio, Hamilton—Butler County receiving bids Aug. 23 for bridge over Four Mile Creek on Darrtown Rd. F. M. Hammerle, County Engr.

Ohio, Marietta — Washington County receiving bids Aug. 22 for 5 bridges. Address County Clk., Marietta.

Ohio, Steubenville—(Official)—Jefferson County receiving bids Aug. 22 for north abutment and steel superstructure of Adena Bridge. J. L. Means, Steubenville, Audr.

Mich., Kearsarge—City making plans for viaduct over Mineral Range R.R. tracks. About $30,000.

Iowa, Ottumwa—Wapello County plans to build Little Soap Bridge, rein.-con. F. L. Russell, Ottumwa, Audr.

Minn., Duluth—St. Louis County granted permission by U. S. Government for bridge over St. Louis River between Duluth and Fond du Lac, Wis. Address County Clk., Duluth.

Minn., Hastings—Dakota County receiving bids Aug. 15 for 5 rein.-con. culverts and 2 bridges. Address County Clk., Hastings.

Kan., Belleville—Republic County receiving bids Aug. 18 for steel highway bridge of 4 riveted steel pony truss spans 80-ft. long, 4 concrete piers, 1 concrete abutment and 16-ft. roadway. Address County Clk., Belleville.

S. D., Aberdeen—Brown County receives bids about Sept. 15 for 3 bridges. J. C. Daly, Aberdeen, Audr.

N. D., Jamestown—Stutsman County receiving bids Aug. 15 for 80-ft. span steel highway bridge on concrete abutments. A. Blewett, Jamestown, Audr.

Mo., Springfield—Greene County made plans for Grand and Nicholson Bridges, about $4,000 each. Address County Clk., Springfield.

Ark., Montrose—Ashley County soon receives bids for bridge over Bayou Bartholomew at Montrose, about $8,000. Address County Clk., Hamburg.

Ark., Morrell—Ashley County plans bridge over Bayou Bartholomew near Morrell, about $8,000. Address County Clk., Morrell.

Ark., Wilmot—Ashley County soon receives bids for bridge over Bayou Bartholomew near Wilmot, about $8,000. Address County Clk., Hamburg. Noted Nov. 11.

Okla., Arnett—Ellis County making plans for steel bridge over Red River in Morgan Township. Address County Clk., Arnett.

Okla., Pawhuska—City making plans for 510-ft. bridge with approaches over creek in City Park, about $350,000. J. M. Buckley, City Engr.

Idaho, Wallace—See item under "Streets and Roads."

Utah, Provo—(Official)—Utah County receiving bids Aug. 19 for bridge over Spanish Fork River. E. T. Palfreyman, Provo, Clk.

Wash., South Bend—Pacific County receiving bids Aug. 22 for 75-ft. rein.-con. arch bridge over Forks Creek and 40-ft. span over Fern Creek. C. B. Nims, South Bend, County Engr.

Calif., San Bernardino—See item under "Streets and Roads."

Calif., San Bernardino—Bd. of Supvrs. receiving bids Aug. 28 for 2 steel truss highway bridges across Santa Ana River. L. R. Patty, San Bernardino, Clk.

Calif., Santa Barbara—(Official)—State Highway Comn., Forum Bldg., Sacramento, receiving bids Aug. 21 for bridge across Santa Ynez River. About $150,000. Noted June 22.

Bids In and Contracts Awarded

Conn., Windsor—City received low bid steel work for bridge from Boston Bridge Works, Boston, $21,099.

N. J., Gladstone—Somerset County let contract bridge over Peapack River to SUTTON & ERNEST, Nashanic Station, $4,500.

N. J., Newark—Essex County let contract repairing Jackson St. Bridge to J. BEFUMO & CO., Newark, $9,497.

Penn., Bethlehem—(Official)—County received no bids for strengthening and relaying floor of bridge over Monocacy Creek. Noted July 13.

Penn., Butler—Butler County let contract Hilliard and Peffer Bridges to F. WINTERS; Kenchin Bridge, J. WINTERS.

Penn., Greensburg—Westmoreland County let contract bridge in Yukon Township to R. GILARDI, Connellsville, $6,293.

Penn., Philadelphia — Philadelphia & Reading Ry. let contract bridge at Ferm Rock to R. WALSH & SONS, 7th and Glenwood St., $114,359. Noted Aug. 3.

Penn., Philadelphia—City let contract bridge on Island Ave. to WILLIAM P. MAHONEY, Harrison Bldg., Philadelphia. About $68,000.

Penn., South Bethlehem—Lehigh and Northampton Counties let contract repairing bridge between Bethlehem and South Bethlehem to HORSEHEADS CONSTRUCTION CO., Horseheads, N. Y., $6,893; repaving same to STEWART CONSTRUCTION CO., $8 333. Noted Apr. 13.

Va., Norfolk—(Press)—Norfolk-Berkley Bridge Corporation let contract bridge between Norfolk and Berkeley to J. STEWART & CO., 30 Church St., New York.

Va., Staunton—Valley Turnpike Co. let contract 3 bridges over North River to VIRGINIA BRIDGE AND IRON CO., Roanoke, $18,000.

W. Va., Wheeling—Ohio County let contract Bellaire Bridge on West 23rd St. to L. C. JENKINS & CO., Wheeling.

Ga., Newman—(Official)—County let contract steel bridge across Charrahoochee River at Moores Ferry on Newman and Carrollton Rd. to INTERNATIONAL STEEL AND IRON CO., Evansville, Ind. About $9,000. T. G. Farmer, Jr., Newman, County Clk. Noted July 13.

Fla., Arcadia—City let contract bridges to SIDHAM & HUGHES, Atlanta, Ga., $6,115.

Ohio, Akron—Summit County let contract improving Portage St. Bridge over Cuyahoga River to CAVANAUGH-LINN CO., Citizens Bldg., Cleveland, $16,558. Noted July 13.

Ohio, Ashland—Ashland County let contract bridges and culverts, grading and paving to E. S. DOWNS & CO., Toledo, $23,038.

Ohio, Dayton—County let contract approaches to Bridge No. 74 to DAYTON CONSTRUCTION CO., Dayton. About $6,000. W. H. Aszling, Dayton, Clk. Noted July 27.

Ohio, Eaton—Preble County let contract bridge work to J. SNIDER, Camden. Noted June 29.

Ill., Bloomington—City let contract repairing West Locust St. Viaduct to I. D. LAIN, Bloomington, $13,980. Noted July 27.

Ill., Cambridge—Cambridge County let contract bridge in Galva Township to H. HAFFNER, Galva.

Ill., Kansas—Town let contract bridge to G. E. HAWKINS.

Ill., Springfield—(Official) — State Highway Comn. let contract bridge in Flat Branch Township, Shelby County, to G. GRIFFITHS, JR., Odd Fellows Bldg., St. Louis, $6,508. Noted July 27.

Wis., Ashland—Town let contract Anderson Bridge over south fork Fish Creek to F. JOHNSON, Washburn.

Wis., Chippewa Falls—City let contract bridge across Duncan Creek on East Spring St. to IOWA STEEL CO., St. Paul, $13,900.

Wis., Prairie du Chien—(Official) — City received low bid for bridge from De Los Engineering and Constructing Co., Prairie du Chien, $8,431. Noted July 13.

Iowa, Harlan—Shelby County let contract bridges to JENSEN CONSTRUCTION CO., Kimballton.

Iowa, Manchester—Delaware County let contract pony truss bridge to WATERLOO CONSTRUCTION CO., 317 Syndicate Bldg., Waterloo.

Iowa, New Hampton—Chickasaw County let contract 2 bridges to A. C. TACKMAN, Clarksville, $5,375.

Iowa, Sioux City—Woodbury County let contract 7 bridges to O'NEIL & SON, Sioux City, $5,115.

Iowa, Waukon—City let contract bridges to WORDEN-ALLEN CO., Milwaukee, $40,635.

Minn., Caribou—State let contract bridge over Roseau River to G. H. MATTSON and L. NORQUIST, Roseau, about $5,000. Noted July 6.

Mont., Anaconda—City let contract 2 bridges to F. SILVER, Anaconda, $5,575.

Tex., Pittsburg—Camp County let contract bridge between Pittsburg and Mt. Pleasant to N. B. GREGORY, Texarkana, $5,032.

Colo., Colorado Springs—El Paso County let contract bridge to PUEBLO BRIDGE CO., Pueblo, $4,770.

Ore., Portland—Multnonah County let contract concrete arch bridge and retaining wall on Base Line Extension Highway to PALMER ELLISON CONSTRUCTION CO., 429 Henry Bldg., $7,021. Noted July 13.

Calif., Marysville—Yuba County let contract bridge over Nigger Jack Slough on Bangor Rd. to JENKINS & WEISS. Sacramento, $6,000.

Calif., Placerville—Eldorado County let contract Colomo Bridge over American River to JENKINS & WELLS, Sacramento, $9,830. Noted July 20.

Ont., Toronto—City let contract 3-span bridge on Catherine Ave. to ARNOT CONSTRUCTION CO., Toronto, $23,513.

Man., Lansdowne—City let contract bridge to BROWN CONSTRUCTION CO., Winnipeg, $5,458.

Sask., Regina—Government let contract 3 bridges to PARSONS CONSTRUCTION CO., LTD.

WATER-WORKS

Proposed Work

Vt., Barre—City plans extending mains. About $35,000. H. E. Reynolds, Supt. Water-Works.

Mass., New Bedford—City receiving bids Aug. 16 for pumping-station superstructure and appurtenances. O. J. Whitney, Supt.

Mass., Southbridge—City plans extending water system.

Mass., Worcester—(Official)—City will build reservoir at Howland Hill by day labor. F. A. McClure, City Engr. Noted July 27.

N. Y., Mt. Morris—City plans water mains between Mt. Morris and Perry. C. C. Hopkins, Engr.

N. Y., New York—(Official)—Bd. Water Supply, Municipal Bldg., receiving bids Sept. 5 for Contract 174, controlling mechanisms for riser valves in shafts of city tunnel of Catskill Aqueduct. (See adv.)

N. Y., New York—(Richmond)—(Official)—William Williams, Comr. Water Supply, Gas and Electricity, Municipal Bldg., Manhattan, receiving bids Aug. 17 for water mains in various streets in Richmond.

N. Y., Watervliet—Trustees of Fairview and St. Coleman's Homes making plans for water system. About $18,000.

N. J., Bayonne—(Official)—City retained Louis L. Tribus, 86 Warren St., New York, as Consult. Engr. to design system of distribution mains.

N. J., Camden—City Council plans extending water-works. J. H. Long, Chn. Engr. Water-Wks.

N. J., Jersey City—City approved plans for pipe line. About $1,000,000. Charles Van Keuren, Ch. Engr.

Penn., Franklin—City plans 900-ft. 15-in. c.-i. water mains. J. G. Crawford, City Clk.

Penn., Harrisburg—Pub. Ser. Com. directed Montrose Water Co. to install filtration plant and get new supply of water.

Water-Works **(Continued)**

Penn., Johnstown—Conemaugh & Franklin Water Co. plans to improve system. About $100,000.

Penn., Mt. Pleasant—Mt. Pleasant Water Co. retained J. A. Brown, Loraine, Ohio, to make plans for filtration plant. Noted July 6.

Del., Wilmington—(Official)—Bd. Water Comrs., 16th and French St., receiving bids Sept. 6 for turbine-driven centrifugal pumps and accessories. E. M Hoopes, Jr., Ch. Engr. Noted June 29. (See adv.)

Md., Baltimore—Bd. Awards receiving bids Aug. 14 for timber and steel addition to Loch Raven Dam, Contract No. 44. W. E. Lee, City Hall, Water Engr. (See adv.)

W. Va., Sistersville—City voted $30,000 bonds for filter plant. Noted Aug. 3.

N. C., Beaufort—See item under "Streets and Roads."

N. C., Scotland Neck—City receiving bids Aug. 15 for water system. J. B. McCrary Co., Atlanta, Ga., Engr.

Ga., Tallapoosa—City voted $10,000 bonds for improving water-works plant.

Fla., St. Cloud—City plans $114,000 bond issue for water-works, sanitary sewer system, sewage-disposal plant and paving.

La., Crowley—Citizens voted $40,000 water-works and electric-light bonds. W. C. Rose, Supt. Noted Dec. 16.

La., New Orleans—Sewerage and Water Bd., Room 508, City Hall Annex, receiving bids Sept. 13 for erecting in drainage pumping station 2 traveling cranes, 15 tons capacity each. Contract No. 77-D. F. S. Shields, Secy.

Tenn., Jonesboro—City retained R. S. Dyer, Johnson City, to make surveys for water system.

Ohio, Akron—City plans $150,000 bond issue for water-works. H. H. Frost, Supt. Water-Wks.

Ohio, Cleveland Heights—(Cleveland post office)—City receiving bids Sept. 5 for water mains, sewers and paving in Hampshire Rd. F. A. Pease Engineering Co., 806 Marshall Bldg., Cleveland, Engr. H. H. Canfield, Clk.

Ohio, Columbus—Dir. Pub. Ser. receiving bids Aug. 15 for automatic electrically driven pump. G. A. Borden, Dir. J. O'Shaughnessy, Supt. Water-Wks.

Ohio, Coshocton—City sold $25,000 water bonds and $5,000 paving bonds. A. M. Fisher, Supt. Noted July 13.

Ohio, Defiance—City votes in September on $125,000 bonds for purchase of water-works system.

Ohio, Dover—(Official)—Dir. Pub. Ser. receiving bids Aug. 16 for water-works. P. W. Hill, Dir. Noted July 20. (See adv.)

Ohio, Eiyria—City sold $20,000 water bonds. Noted July 13.

Ohio, Ironton—(Official)—City receiving bids Sept. 2 for sale of $375,000 filter plant bonds. H. M. Paul, Clk.

Ohio, Medina—Bd. Pub. Affairs receiving bids Aug. 19 for mechanical water filtration and pumping plant. F. L. Rollins, Supt. Water-Wks. Noted Aug. 3.

Ohio, Ravenna—W. H. Linton, Dir. Pub. Ser., receiving bids Aug. 18 for improving water system under Contracts Nos. 1, 2 and 3. R. Winthrop Pratt, Hippodrome Bldg., Cleveland, Consult. Engr.

Ohio, Rocky River—(Official)—City receiving bids Aug. 15 for water mains in North Ridge Rd. F. Mitchell, City Clk. About $10,081. Noted June 29.

Ohio, Wilmington—City plans extending water mains in Park Ave. and Walnut St.

Ohio, Zanesville—City sold $390,000 water and street bonds.

Mich., Flint—City votes Aug. 10 on $400,000 water bonds. Noted Apr. 20.

Mich., Lansing—Citizens voted $165,000 bonds for extending water system and reservoir. G. G. Crane, Supt. Noted June 22.

Ill., Evanston—(Official)—Comr. Pub. Wks. receiving bids Sept. 8 for pumping station. Irving C. Brower, Comr.

Ill., Galesburg—City plans new reservoir. T. H. Snowball, Supt.

Ill., Glasford—City receiving bids Aug. 18 for water-works. Fuller-Coult Co., Chemical Bldg., St Louis, Mo., Engr. Noted June 22.

Ill., Litchfield—Council plans $15,000 water-works improvement bonds. W. Wilton, Supt.

Wis., Altoona—(Official)—City will grant franchise to outside corporation for water-works. C. J. Hayden, City Clk. Noted June 29.

Wis., Clintonville—City receiving bids Aug. 25 for water mains in Menaha, Lincoln Ave., Grover and Mendota St.

Iowa, Cedar Falls—City making plans extending mains. E. H. Streeter Supt. Noted July 20.

Iowa, Kelley—(Official)—City receiving bids Aug. 11 for water-works system. About $7,500. J. L. Johnson, Clk. Noted June 22.

Iowa, Westpoint—City voted $15,000 water-works bonds. Noted June 22.

Minn., Mankato—City soon receives bids extending water mains in May St. H. F. Blomquist, Supt. Water-Wks.

Minn., Perham—City soon votes on $10,000 water-works bonds.

Minn., Silver Lake—City sold $18,000 water-works bonds.

Minn., Spooner—City receiving bids Aug. 15 for well, 8-in. dia. and 1,000 ft. deep. A. M. Robertson, Clk.

Kan., Galena—(Official)—City would like to confer with engineers on plans for a filtration plant. W. J. Land, Supt.

Kan., Goodland—City plans improving water system and extending mains. C. C. Calvert, City Engr.

Kan., Minneapolis—City plans water-works. About $10,000. R. E. Sutton, Supt. and Des. Engr.

Kan., Parsons—Citizens defeated $318,000 water bonds. C. W. Frye, Clk. Noted July 20.

Neb., Florence—Metropolitan Water Dist. soon to let contract for pumping station.

Wyo., Lovell—City receiving bids Aug. 21 for water-works. J. O. Godfrey, City Clk. Noted July 20.

Mont., Glendive—City receiving bids Aug. 17 for water system. Burns & McDonnell, Interstate Bldg., Kansas City, Mo., Engr. Noted June 1.

Mo., Benton—City sold $34,000 water and sewer bonds.

Mo., Milton—City voted $18,000 water bonds.

Tex., Pecos—H. LaSalle, Engr., plans water system.

Tex., Port Lavaca—City plans improving water system. A. A. Ames, Clk.

Okla., Morris—City voted $10,000 water bonds.

Okla., Poteau—City defeated $85,000 water bonds. Matt X. Beard, Clk. Noted July 13.

Okla., Waynoka—City votes Aug. 31 on water-works bonds.

Okla., Wetumka—City plans improving water system. About $16,000.

Ariz., Tucson—City plans installing 2,500 water meters. About $20,000.

Wash., Blaine—City voted bonds for water system. Noted July 6.

Calif., Grass Valley—City Council plans filtration plant, 2,500,000 gal. About $28,903. C. H. Barker, City Clk.

Que., Drummondville—City receiving bids Aug. 15 for mechanical gravity filter system, 500,000 U. S. gal. per 24 hr. Noted Apr. 6.

Que., Sherbrooke—City receiving bids Aug. 11 for concrete dam. About $50,000.

Sask., Assiniboia—City receiving bids Aug. 15 (extension of date) for water-works. J. R. Nolan, City Secy. Murphy & Underwood, Saskatoon, Consult. Engr. Noted July 27.

Bids In and Contracts Awarded

Mass., Boston—City let contract high-pressure mains in various streets to COLEMAN BROS., Chelsea, $11,614. Noted Aug. 3.

Mass., Boston—City let contract water pipe to A. BARUFFOLDI, 5 Parker Pl., Somerville, $7,137.

Mass., Boston—City let contract water gate valves to COFFIN VALVE CO., Tolman St., Neponsit. Noted July 20.

Va., Williamsburg—City let contract water system to NOLAND-CLIFFORD CO., Newport News. About $13,186. Noted June 22.

Ohio, Ironton—(Official)—Dir. Pub. Ser. let contract water system to HESSMAN & SHUMWAY, Portsmouth. About $69,000. Noted July 20.

Ohio, Youngstown—Bd Pub. Affairs let contract filter plant to HENDERSON CONSTRUCTION CO., Youngstown, about $53,000; iron pipe to MASSILLON IRON CO., about $30 per ton. Noted July 13.

Mich., Ford City—City let contract extending system to T. C. BROOKS & SON, Detroit, $6,000. Noted July 13.

Ill., Forreston—City let contract dam and spillway at water-works to M. C. CONNORS & CO., Chicago, $17,000.

Ill., Lawrenceville—Central Illinois Pub. Ser. Co. let contract filtration plant to ARMSTRONG ENGINEERING CO., Taylorville. About $15,000.

Iowa, Exira—City let contract improving water system to C. B. REYNOLDS, Council Bluffs; elevated tank and tower to DES MOINES BRIDGE AND IRON CO., Des Moines. Noted June 29.

Kan., Dighton—See item under "Light, Heat and Power."

Kan., Topeka—City let contract additional reservoir to GEORGE H. SENNE, 1st and Kendall St. Noted July 13.

Neb., Miller—City let contract water system to KATZ CONSTRUCTION CO., Brandeis Bldg., Omaha. About $9,940.

Calif., Pasadena—City let contract c.-i. water pipe and fittings to UNITED STATES CAST IRON PIPE CO. About $11,967.

Calif., San Francisco—(Official)—City let contract for making core borings for Hetch Hetchy project to INTERNATIONAL DIAMOND DRILL CONTRACTING CO., $24,923. Noted July 20.

Que., St. Leonard de Port Maurice—City let contract water-works system to J. A. BRAY, 6419 St. Denis St., Montreal. About $70,000.

Que., Trois Pistoles—Council let contract water-works system to LEOND'AMOURS, Trois Pistoles. About $35,000.

Sask., Moose Jaw—City let contract dam at head of Sandy Creek water system to C. E. McMANUS & CO., $12,956.

SEWERS

Proposed Work

N. Y., Buffalo—City plans sewers in Amherst, Berkshire and Stockbridge St. About $7,500. A. W. Kreinheder, Supt. Dept. Pub. Wks.

N. J., Camden—City receiving bids Aug. 21 for sewers in 27th St. and Railroad Alley. A. T. Sayres, City Clk.

N. Y., Fulton—City receiving bids Aug. 21 for sewers. About $26,868. G. C. Hill, City Engr. C. M. Allen, Jr., City Clk.

N. Y., Mt. Kisco—(Official)—Bd. Trustees receiving bids Aug. 15 for sewer in Old Kisco Ave. George B. Cranston, Village Clk.

N. Y., Mt. Kisco—(Official)—Bd. Trustees receiving bids Aug. 15 for sewer in Railroad Ave. George B. Cranston, Village Clk.

N. Y., New York—(Borough of Manhattan)—(Official)—Marcus M. Marks, Pres. Borough Manhattan, Room 2023, Municipal Bldg., receiving bids Aug. 18 for receiving basins on 126th St.

N. Y., New York—(Queens)—Maurice E. Connolly, Borough Pres., Borough Hall, Long Island City, receiving bids Aug. 16 for sewers in Lurting St., Alstyne and Junction Ave., 2nd ward; 19th St., 3rd ward; Woodbine St. and Prospect Ave., 2nd ward; Joslin St., 3rd ward; Collins Ave., Adriatic St. and Fresh Pond Rd., 2nd ward; Forbes St., Jackson Ave., Dunsing and Clarence St., 3rd ward.

N. Y., New York—(Borough of Richmond)—(Official)—Calvin D. Van Name, Pres. Borough Richmond, Borough Hall, receiving bids Aug. 16 for sewers in portion of Oxford Pl. and Woodstock Ave.

N. J., Hoboken—City receiving bids Aug. 16 for sewers in 7th, 11th and 15th St. D. A. Haggerty, City Clk. Noted July 27.

N. J., New Brunswick—City plans filtration plant and stand pipe. About $79,000. C. H. Morris, Supt. Water-Works.

N. J., Perth Amboy—City plans sewer in State St. S. J. Mason, City Engr.

N. J., Pitman—City receiving bids Aug. 21 for sewer and sewage system. Remington & Vosbury, Camden, Engr. Noted July 27.

Penn., Allentown—City making plans for sewers in Oak and Howard St. C. Weirbach, City Engr.

Penn., Kittanning—City plans sewage plant. Wade Mast, Borough Engr.

Penn., Marcus Hook—Borough Council plans to improve and extend sewer system.

Penn., Upper Darby—City making plans for sewer and sewage plant.

N. C., Beaufort—See item under "Streets and Roads."

Ga., Cave Springs—City votes Aug. 31 on bonds for sanitary sewer system and water-works. Address W. H. Lumpkin, Secy. Farmers & Business Men's Club.

Fla., St. Cloud—See item under "Water-Works."

Ala., Birmingham — City plans to reconstruct sewer system. About $1,000,000. J. Kendrick, City Engr.

Ky., Hopkinsville—City making plans for sewer system. Solomon Norcross Co., Atlanta, Ga., Engr. C. A. Cundeff, City Engr.

Ohio, Barberton—City making plans for sewage plant.

Ohio, Canton—City making plans for 4 mi. storm sewers. About $76,056. W. E. Sarver, City Engr.

Ohio, Columbus—Dir. Pub. Ser. receiving bids Aug. 15 for sewer in Pearl St. G. A. Borden, Dir.

Ohio, Greenville—Ordinance passed to issue $150,000 bonds for sewers in Spring and Pine St. and Riffle Ave.

Ohio, Hamilton—City receiving bids Aug. 29 for sale of $21,143 sewer bonds. Frank E. Weaver, City Engr. Noted June 1.

Ohio, Mt. Gilead—City made plans for sewer system and sewage plant. Noted July 27.

Ohio, Port Clinton—City voted to reconstruct sewers on Monroe and Washington St. and West Market Space.

Ohio, Sandusky—City receiving bids about Aug. 14 for sewer system in Taylor St. A. F. Johnson, City Engr. Noted July 13.

Ohio, Sandusky—City made plans for sewers in Madison and Market St. A. F. Johnson, City Hall, City Engr.

Ohio, Sebring—City made plans for trunk-line sewer in 20th St.

Ohio, Toledo—County Comrs. receiving bids Aug. 14 for Sanitary Sewer No. 28 in Lucas County Main Sewer Dist. No. 4.

Ohio, Youngstown—City plans sewers in Overland Ave. F. M. Lillie, City Engr.

Ind., Evansville—City making plans for sewer in Law Ave. About $12,000. J. D. Saunders, City Engr.

Ind., Ft. Branch—State Bd. of Health recommended sanitary sewer system.

Sewers (Continued)

Ind., Shelbyville—City plans sanitary sewer in Tompkins St. About $6,000. G. McBridge, City Hall, Engr.

Ill., Granite City—(Official)—Bd. Local Impvts. receiving bids Aug. 15 for outlet sewer. About $350,000. E. Hall, City Engr. Noted Mar. 16. (See adv.)

Ill., Peru—City plans reservoir and improving water system. Charles Beusel, Supt.

Ill., Witt—City making plans sanitary sewers. Warren Engineering Co., Powers Bldg., Decatur, Engr.

Wis., Marshfield—City made plans for sewage plant. Joseph P. Schwada, University of Wisconsin, Madison, Engr.

Wis., Watertown—Bd. Pub. Wks. receiving bids Aug. 15 for storm sewers, catch basins and manholes. Noted May 25.

Iowa, Anthon—(Official)—City receiving bids Aug. 24 for sanitary sewers, septic tank and filters. About $20,000. P. D. Cook, 518 W. B. Bldg., Sioux City, Consult. Engr. Noted Apr. 6.

Iowa, Cedar Falls—City making plans for sewer in Pfeiffer Pl. C. H. Stretter, 212 Main St., City Engr.

Iowa, Emmetsburg—City soon receives bids for about 6 mi. of storm water sewers. About $100,000. Marr, Green & Co., 17 North La Salle St., Chicago, Engr. Noted June 22.

Iowa, Estherville—City receiving bids about Sept. 1 for sanitary sewers. About $6,000. O. B. Smith, City Engr.

Iowa, Marengo—City plans sewer system. About $58,000.

Iowa, Stuart—(Official)—City receiving bids Aug. 21 for sewer system, outlet sewer and disposal plant. T. S. DeLay, Crestor, Engr.

Iowa, Waterloo—City plans sewers in Archer, Reber and Fletcher Ave. and Kern St. C. A. Roby, City Engr.

Iowa, Westpoint—City voted $4,000 sewer bonds. Noted June 22.

Minn., Kasson—City soon receiving bids for extending sewer system. J. F. Druar, 311 Commercial Bldg., St. Paul, Engr. G. F. Westcott, Clk. Noted July 20.

Minn., Madison—City making plans for sanitary sewers and sewage treatment plant. About $26,000. L. P. Wolff, Garmania Life Bldg., St. Paul, Engr. Noted July 6.

Minn., Mankato—City making plans for storm sewers in West Front and West 4th St. H. F. Blomquist, City Engr.

Kan., Garden City—City plans sewer system. About $45,000. Ruckel Engineering Co., First National Bank Bldg., Hutchinson, Engr.

N. D., Mandan—City making plans for extending sanitary sewers. Black & Griffin, Engr.

Mo., Benton—See item under "Water-Works."

Mo., Cape Girardeu—City making plans for sewer system. About $100,000. C. E. Stever, Engr.

Mo., Chillicothe—City making plans for extending Swift sewer to Grand River. J. O. Broaddus, City Engr.

Ark., Little Rock—City made plans for extending Pulaski Heights sewer system. C. Levinson, City Engr. Noted Apr. 27.

Tex., Seguin—City voted $36,000 bonds for sewer system. Address City Clk. Noted July 20.

Okla., Cordell—City making plans for sewer system. Benham Engineering Co., Oklahoma, Engr. Noted July 6.

Okla., Poteau—City defeated $15,000 sewer bonds. Noted July 20.

Calif., Fresno—City sold $11,408 sewer bonds. B. E. Cronkite, City Engr.

Calif., San Francisco—City made plans for sanitary and storm sewers. About $125,000. M. M. O'Shaughnessy, City Engr.

Bids In and Contracts Awarded

Mass., Swampscott—City let contract Erie-Huron-Ontario sewer to J. T. LYONS.

R. I., Woonsocket—City let contract sanitary sewers and appurtenances to HUNTER & MALONEY, Melrose, Mass. Noted July 6.

N. Y., New York—(Bronx)—Bids received Aug. 3 for sewers in East 177th St., Bronx Park Ave., etc., from New York & New Jersey Construction Co., 30 East 42nd St., Manhattan, $289,964, and Anita Construction Co., $315,444.

N. Y., New York—(Richmond)—(Official)—Borough received low bid for temporary sewers in portion University Pl. and Forest, Hart and Laurel Ave. from J. Johnson Sons, 455 Broadway, West New Brighton, $6,717. Noted July 20.

N. J., Camden—City let contract sewers in Cape and Miller St. to A. WARD & SONS, 524 Trenton Ave. Noted June 1.

N. J., Rahway—City let contract sewers to L. J. SIELING, 171 Madison Ave., New York, $4,053. Noted July 20.

Penn., Harrisburg—City let contract sewer in Green St. to STUCKER CONSTRUCTION CO.

Penn., Johnstown—City let contract for sanitary sewers to JAMES M. COOK, Johnstown. About $28,254. Noted May 25.

W. Va., Richwood—City let contract sewer system to PUCCY & FLORA, Clarksburg. About $40,000.

Fla., Gainesville—Bd. of Pub. Wks. let contract extending sanitary sewer system to MICHLER & FLYNN, Chattanooga, Tenn. About $12,495. Noted June 22.

Ohio, Lorain—City let contract storm sewer in Reid Ave. to T. TIFILETTI, $15,000. Noted Mar. 16.

Ohio, West Park—(Official)—City let contracts sanitary sewers in Lorain Ave. and Riverside Dr. to J. WINTERBOTTOM, 3274 West 25th St., Cleveland, $27,827, and M. NICHOLS & SON, 11422 Fairchild Ave., Cleveland, $10,034. Noted July 6.

Ind., Frankfort—City rejected bids received June 30 for East End District sanitary sewer. Revised plans will be made. R. H. Boynton, City Engr. Noted June 15.

Mich., Ann Arbor—Hochrein & Co., $13,088 submitted lowest bid for sewers. Noted June 8.

Mich., Flint—City will build sewers in 3rd Ave. by day labor. E. C. Shoecraft, City Engr.

Ill., Geneva—City let contract sewers to G. A. MALLORY CO., Kewanee, $17,283.

Ill., Wilmington—Monahan Bros., 19 South La Salle St., Chicago, $61,743 submitted lowest bid for sewers. Noted July 13.

Minn., Duluth—Duluth Builders Supply Co. $12,134 submitted lowest bid for sewer material in Districts Nos. 1 to 6.

Kan., Chanute—City let contract sewer to J. F. SEAVER, Chanute. About $4,046. Noted July 27.

Neb., Norfolk—City let contract 3 sewer districts to ELKHORN CONSTRUCTION CO. Noted June 8.

N. D., Bismarck—City let contract storm sewer system in eastern section to G. T. GEDNEY, Minneapolis, $45,384. Noted July 27.

Mo., Kansas City—City let contract sewer in Dist. No. 437, Div. No. 7, to JAMES R. OLDHAM, 4904 Euclid Ave. About $20,873.

Ore., La Grande—City let contract sewer system to GEORGE GORDON, 116 11th St., Portland. About $15,567.

Calif., Oakland—Contra Costa Construction Co., $9,197 submitted lowest bid for sewer in Linden St. P. F. Brown, City Engr.

GARBAGE

Proposed Work

N. Y., New Rochelle—(Official)—Comr. Pub. Wks. receiving bids Aug. 18 for refuse destructor. J. A. Hadert, Comr. Pub. Wks. (See adv.)

Penn., Dubois—City plans garbage incinerator. About $10,000. J. H. Fulford, City Engr.

Penn., Reading—(Official)—City receiving bids Aug. 23 for disposal of garbage, offal and sewage sludge in sanitary and nonoffensive manner. C. Marks, City Clk. (See adv.)

Bids In and Contracts Awarded

N. Y., New York—(Manhattan)—Bids received July 27 for (a) removal of snow and ice during winter season 1916-1917, (b) in 3 districts, (c) removal snow and ice during 1916-1917, Bronx, (d) removal snow and ice during 1916-1917, Brooklyn, (e) in 4 districts, Brooklyn, from Hemingway Co., (a) 36.8c.; J. J. B. La Marsh, (b-1) 51.25c.; Mulhall & McManus, (b-2), 48c.; F. Bramcicco, (c) 35c.; Robertson Contracting Co., (d) 34c.; Newman & Carey, (e-1) 36.7c., (e-2) 34.7c., (e-3) 34.7c., (e-4) 33.4c. Noted July 20.

N. J. Belleville—Essex County Hospital for Contagious Diseases let contract incinerator plant to ESSEX CONSTRUCTION CO., 87 Academy St., Newark. Noted July 15.

STREETS AND ROADS

Proposed Work

Mass., Boston—(Official)—E. F. Murphy, Comr. Pub. Wks., Room 511, City Hall Annex, receiving bids Aug. 14 for paving various streets with granite block and wood block pavement.

Mass., Lawrence—Council appropriated $50,000 for paving. A. D. Marble, City Engr.

Mass., Salem—A. W. Dean, Engr. Massachusetts Highway Comn., recommended that city improve Bridge St.

Mass., Somerville—City plans to pave Union Sq., about $25,000. E. W. Bailey, City Engr.

Conn., Greenwich—(Official)—Highway Comn., Borough Court Room, Town Hall, receiving bids Aug. 15 for about 8,000 sq.yd. rein.-con. pavement. L. V. Lockwood, Chn. (See adv.)

Conn., New Britain—City plans to pave portion Stanley St., concrete. W. H. Hall, City Engr.

N. Y., Buffalo—City making plans for paving Moeller and Evadere St. G. H. Norton, City Engr.

N. Y., New York—(Manhattan)—(Official)—Marcus M. Marks, Borough Pres, Municipal Bldg., receiving bids Aug. 16 for furnishing and delivering 600 tons refined asphalt.

N. Y., New York—(Manhattan)—(Official)—Marcus M. Marks, Borough Pres., Municipal Bldg., receiving bids Aug. 16 for repaving portion of Walker St.

N. Y., New York—(Richmond)—(Official)—Calvin D. Van Name, Borough Pres., Borough Hall, receiving bids Aug. 14 for grading and repaving several streets.

N. Y., New York—(Richmond)—(Official)—Calvin D. Van Name, Borough Pres., Borough Hall, receiving bids Aug. 15 for repaving Willow Brook and Port Richmond Rd.

N. Y., New York—(Richmond)—(Official)—Calvin D. Van Name, Borough Pres., Borough Hall, receiving bids Aug. 18 for repaving portion of New York Ave.

N. Y., Rensselaer—City receiving bids Aug. 15 for brick paving. L. Greenalch, City Engr.

N. Y., Rochester—City plans to extend and widen Church St., about $240,000. F. T. Elwood, City Engr.

N. Y., Schenectady—Bd. Contract and Supply receiving bids Aug. 16 for 13,000 sq.yd. asphalt pavement and about 500 lin.ft. c.-i. pipe and 2,000 ft. vitrified pipe. W. T. Wooley, City Engr.

N. Y., Seneca Falls—(Official)—Village receiving bids Aug. 16 for paving portion Fall St. C. W. Combs, Village Clk.; S. S. Smith, Engr. (See adv.)

N. J., Belmar—Council plans to improve Main St., brick or wood block.

N. J., Bloomfield—Council authorized $55,000 paving bonds. E. Baechlin, City Engr.

N. J., Mt. Holly—Bd. Chosen Freeholders, Burlington County, receiving bids Sept. 6 for improving Mile Hollow Yardville Rd., Bordentown Township, about 16,747 sq.yd. macadam. H. Hawkins, Jr., Mt. Holly, Clk.

N. J., West Hoboken—City plans to repave Spring St. and Summit Ave.

N. J., West Hoboken—City soon lets contract paving Hudson Ave. and Charles and West St.

N. J., Woobdridge—Town will make plans for improving and laying sidewalks on Woodbridge Ave.

N. J., Woodbridge—Town plans to curb and gutter 5th St.

Penn., Allentown—City plans to pave 5th, Spruce and 13th St., brick, granite or asphalt. C. Weirbach, City Engr.

Penn., Beaver—County Comrs. receiving bids Aug. 15 for grading fill on State Highway from Monaca to Aliquippa over Elkhorn Run. John H. Greer, Jr., Beaver, County Clk.

Penn., Bradford—City received no bids for paving portion Clarence St., brick. New bids. B. A. Wise, City Engr. Noted July 13.

Penn., Brentwood—Council receiving bids Aug. 17 for curbs and sidewalks on portion Brownsville Rd. C. F. Way, Clk. Douglas & McKnight, 1315 Union Bank Bldg., Pittsburgh, Engr. (See adv. Aug. 3 issue).

Penn., Cresson—City sold $25,000 paving bonds.

Penn., Embreeville—Bd. Superv., Newlin Township, Chester County, Embreeville, receiving bids Aug. 15 for improving public road, about 8,545 lin.ft.

Penn., Ingram—(Pittsburgh post office)—Town Council passed ordinance to pave portion Tunnell St. D. H. Hainer, Secy.

Penn., Montoursville—Borough plans brick or asphalt paving. J. M. Hayes, Burgess.

Del., Georgetown—(Official)—Rd. Office, Georgetown, receiving bids Aug. 12 for Sects. 5 and 6 of Coleman du Pont Rd. (See adv.)

Md., Baltimore—(Official)—State Roads Comn. receiving bids Aug 29 for state highway work in Harford and Somerset Counties C. H. Wilson, Secy. Comn. (See adv.)

W. Va., Summersville—Nichols County election Aug. 26 to vote on $250,000 road bonds for Beaver Dist. Address County Clk., Summersville. Noted June 22.

W. Va., Wellsburg—Brooke County sold $800,000 road bonds. G. C. Wells, Wellsburg, Comr. Noted July 13.

N. C., Albemarle—(Official)—City receiving bids Aug. 15 for 25,000 sq.yd. paving with alternative bids on 50,000 sq.yd., asphalt, bituminous concrete, brick and blocks. Work includes curbing, sewers, etc. Anderson & Christie, Charlotte, Engr. Noted June 29. (See adv.)

N. C., Beaufort—Town plans election to vote on $75,000 bonds for street improvements and sewers and water-works.

N. C., Beaufort—Carteret County receiving bids Aug. 21 for 4½-mi. road, Hunting Quarter Township. J. O. Mason, Stacey, Chn.

N. C., Jonesboro—(Official)—City did not vote $5,000 street improvement bonds. Noted July 27.

N. C., Warrenton—City plans about 6,000 sq.yd. asphalt, bitulithic or concrete pavement. A. G. Elliott, Engr.

N. C., Warsaw—City plans to improve Main St., about $5,000 available.

Ga., Savannah—Chatham County receiving bids Sept. 14 for 14,000 bbl. portland cement for highways. G. R. Butler, Savannah, Clk.

Fla., Jacksonville—City plans to pave Adams, Hogan and Forsyth St. L. D. Smooth, Comr. Pub. Wks.

Streets and Roads (Continued)

Fla., Key West—Monroe County plans election to vote on $125,000 bonds for roads on Florida Keys. Address County Clk, Key West

Fla., St. Cloud—See item under "Water-Works."

Fla., Lake Wales—City and Lake Wales Land Co. making plans for several miles asphalt pavement. H. S. Jaudon Engineering Co., Box 384, Bartow, Engr.

Ala., Center—Cherokee County receiving bids Aug. 26 for road from Center to county line. J. L. Savage, Center, Judge Provate.

Ala., Lafayette — Chambers County receiving bids Aug. 28 for 2 mi. road. F. E. Fitch, Lafayette County, Engr.

Miss., Ackerman—Choctaw County voted $25,000 road bonds. Address County Clk., Ackerman. Noted June 1.

Miss., West Point—See item under "Bridges."

La., Colfax—Grant County plans election to vote on tax for road improvements, Ward 3. Address Clk, Colfax.

La., Rayville—Richland County election Sept. 16 to vote on $130,000 bonds for roads and bridges. T. J. Coenen, Chn. Com.

Tenn., Centerville—Hickman County election Sept. 1 to vote on $225,000 road bonds. J. T. Bates, Centerville, County Judge. Noted July 27.

Ky., Covington—Fiscal Court receiving bids Aug. 15 for improving Independence and Falmouth Rd John B. Dillon, Covington, County Clk.

Ky., Covington—(Official)—Fiscal Court Kenton County, Court House, receiving bids Aug. 16 for improving Covington and Independence State Aid Rd., waterbound macadam, bituminous and glutrin. R. Wiley, Frankfort, Comr. Rd.

Ky., Lexington—Comr. Pub. Wks. plans improving and extending Euclid Ave. J. W. Guyn, City Engr. W. H. McCorkle, Comr.

Ky., Paducah—(Official)—City receiving bids Aug. 17 for street paving. L. A. Washington, Comr. Pub. Wks. (See adv.)

Ohio, Akron—City plans paving East North St. J. A. Gelvies, City Engr.

Ohio, Bay Village—Town receiving bids Aug. 31 for purchase of $72,267 bonds for roads. A. L. Miller, Clk.

Ohio, Cincinnati—Hamilton County plans to improve Brooks Rd., $55,000; Baughman Rd., $10,000; Willey Rd., $29,000. W. Boch, Cincinnati, County Engr.

Ohio, Cincinnati—Council passed resolution to pave Hamilton, Donham and Meade St. F. Krug, City Engr.

Ohio, Cleveland—(Warrensville post office)—Town receiving bids Sept. 5 for purchase $23,112 bonds for improving Hampshire Rd. H. H. Canfield, Clk.

Ohio, Cleveland—City receiving bids Aug. 16 for improving portion Woodland-Hills-Garfield Blvd. Robert Hoffman, City Engr.

Ohio, Columbus — (Official) — State Highway Comn. receiving bids Aug. 17 for constructing and repairing highways in 32 counties. Clinton Cowan, Columbus, Comr.

Ohio, Dunkirk—Village sold $47 000 paving bonds. R. R. McElroy, Clk. Noted July 6.

Ohio, East Liverpool—City receiving bids Aug. 22 for improving portion of Summit Lane, Jackson, Baum and McKinnon St., St. Clair and Pennsylvania Ave.

Ohio, East Liverpool—Council authorized $55,000 paving bond issue. J. C. Kelly, City Engr.

Ohio, Findlay—City plans $80,000 bond issue for paving 6th St. U. K. Stringfiellow, City Engr.

Ohio, Fostoria—City plans to pave portion Union St. C. A. Latshaw, City Engr.

Ohio, Lima—City plans to pave Robb and Fairview Ave. J. I. Heffner, City Clk.

Ohio, Lima—City plans paving Fairview Ave. and several other streets.

Ohio, Mansfield—Richland County made plans improving Shelby Rd., 1,950 ft. concrete. H. A. Dalton, Mansfield, Audr. E. A. Merkel, Engr.

Ohio, Marietta—Council passed ordinance to pave portion Oakwood Ave., Vine, Poplar, Chestnut and Holly St. R. E. Toler, Clk.

Ohio, Marietta—City plans improving Glendale St. from 7th St. to Hadley's Lane. R. E. Toler, Clk.

Ohio, Middletown—Council passed ordinance to improve portion Bellemonte Ave. W. E. Morrison, City Engr.

Ohio, Midland—City plans to pave Midland Ave., about $17,000.

Ohio, Newark—City receiving bids Aug. 14 for paving portion 11th St. C. H. Wells, City Engr. Noted Apr. 13.

Ohio, Newark—City receiving bids Aug. 14 for paving portion Moull St. C. H. Wells, City Engr. Noted May 18.

Ohio, Newark—City receiving bids Aug. 14 for paving portion South Cedar St. C. H. Wells, City Engr. Noted June 15.

Ohio, Norwood—Council passed resolution to improve portion Edmonson Rd J. G. Schmidt, City Engr.

Ohio, Oxford—(Official)—Village receiving bids Aug. 22 for paving portion High St., brick or asphalt. L. A. Boulay Co., 1250 Nicholas Bldg., Toledo, Engr.

Ohio, Sandusky—City made plans for 42 508-ft. concrete paving on East 9th St. A. F. Johnson, City Engr.

Ohio, Sandusky—City soon receives bids for paving and curbing 5th St. A. F. Johnson, City Engr.

Ohio, Springfield—City Mgr. receiving bids Aug. 17 for paving East Court St, Grube Rd and Lowrey and Euclid Ave. M. J. Bahin, City Engr. Noted Aug. 3.

Ohio, Steubenville—Council authorized $11,500 paving bond issue. J. N. Leech, City Engr.

Ohio, Toledo—Lucas County plans to pave Tready Rd., Richfield Township. C. L. Rood, Toledo, County Engr.

Ohio, Urbana—City plans paving West Court St. E. F. Sweetman, City Engr.

Ohio, Warren—Council passed resolutions to pave portions Youngstown and South Laird Ave. H. S. McKibben, City Engr.

Ohio, Wooster—Council passed resolution to improve portion Columbus Ave. H. U. Mowery, City Engr.

Ohio, Zanesville—See item under "Water-Works."

Ind., Anderson—City making plans for paving portion Central Ave. E. A. Funk, Engr.

Ind., Angola—County receiving bids Sept. 5 for road in Pleasant Township. F. C. Dewey, Angola, Audr.

Ind., Crown Point—County receiving bids Aug. 17 gravel road in West Creek and Cedar Creek Townships. E. Simon, Crown Point, Audr.

Ind., Frankfort—County receiving bids Aug. 15 for sale of $15,720 road bonds. Address County Clk., Frankfort.

Ind., Indianapolis—Bd of Pub. Wks. receiving bids Aug. 16 for improving College Ave.

Ind., Indianapolis—Bd. of Pub. Wks. receiving bids Sept. 1 for curbing and paving various streets.

Ind., Indianapolis—Bd. Pub. Wks. receiving bids Aug. 18 for paving Pleasant St. and Kealing Ave. B. J. T. Jeup, City Engr.

Ind., Monticello—White County plans 3 mi. paving. A. G. Fisher, Monticello, Audr. P. Ward, Court House, Engr.

Ind., Terre Haute—County receiving bids Aug. 19 gravel road in Sugar Creek Township.

Ind., Winchester—County receiving bids Aug. 12 for sale of $73,900 road bonds. Address County Clk, Winchester.

Mich., Big Rapids—City plans to improve Madison St.

Mich., Sault Ste. Marie—City soon lets contract for 4,550 sq.yd. concrete paving on Magazine St., about $8,826. R. A. Frederick, City Engr. Noted July 20.

Ill., Catlin—Town receiving bids Aug. 19 for ¾ mi. 20-ft. brick pavement. W. H. Jones, Clk. W. F. Dillon, Danville, County Supt. Highways.

Ill., Champaign—City making plans for paving North State and Union St. and Bloomington Rd., brick. F. Lohman, City Engr.

Ill., Decatur—City plans to pave portion Cobb Ave., brick. P. T. Hicks, City Engr.

Ill., Jordan—(Official)—Comrs, Highways, care of F. J. Bowman, Sterling, receiving bids Aug. 17 for gravel roads and culverts in Whiteside County, 16,238 cu.yd. gravel and 102.2 cu.yd. rein.-con. V. N. Taggett, Morrison, County Supt. Highways.

Ill., Marion—City receives bids about Sept. 1 for 5,000 yd. paving, curbing and guttering, Dist. No. 15, macadam. F. Payne, Hartinell Bldg., Engr.

Ill., Peoria—City plans paving Archer Ave. L. D Jeffries, City Engr.

Ill., Springfield—City plans to pave and curb Monroe St. and Lincoln Ave., brick, about $19,849. W. D. Seeley, City Engr.

Ill., Witt—City making plans paving and curbing 8,000 s.yd., concrete. Warren Engineering Co., Powers Bldg., Decatur, Engr.

Wis., Ellsworth—Pierce County plans to spend $55,000 for road work. O. J. Hohle, Ellsworth, County Clk

Wis., Fond du Lac—Bd. Pub. Wks. receiving bids Aug. 22 for paving Oshkosh Rd. J. S. McCullough, City Engr. Noted Aug. 3.

Iowa, Dubuque—J. J. Shea, City Recdr., receiving bids Aug 17 for improving Nevada St.

Iowa, Oskaloosa—City making plans for paving 7 blocks 2nd Ave., brick. W. H. Carlin, City Clk.

Minn., Crookston—City made plans for paving Hunter St.

Minn., Hastings—Dakota County receiving bids Aug. 15 for grading 2 mi. road. P. A. Hoffman, Hastings, Audr.

Minn., New Ulm—City making plans for grading and graveling 4 blocks. F. D. Minium, Engr.

Minn., Red Wing—City making plans for paving 4th St. A. E. Rhame, City Engr.

Minn., St. Paul—City plans to improve Mounds Blvd., concrete, $51,054. O. Claussen, City Engr.

Minn., St. Paul—City receiving bids Aug. 14 for improving Berkeley St. Oscar Claussen, City Engr.

Kan., Independence—City let contract about Sept 1 for 6,000 yd. brick paving, about $11,000. G. E. Weaver, City Engr.

Kan., Iola—Allen County plans 6½ mi. rock road between Iola and Geneva. Address County Clk., Iola.

Neb., Nebraska City — Citizens voted $30,000 paving bonds. C. A. Shannon, City Engr. Noted July 6.

S. D., Mitchell—City soon lets contract paving East 2nd and East 3rd Ave., 11,898 sq.yd. concrete wood block. S. H. Smith, City Engr.

N. D., Bismarck—County plans voting on $94,000 highway improvement bonds. Address County Clk., Bismarck.

Wyo., Casper—Council plans to pave several streets.

Mont., Billings—Great Western Sugar Co. appropriated $10,000 for improving roads. E. N Sneckenberger, City Engr.

Mont., Helena—City plans to pave portion Broadway. J. D. McLeod, City Engr.

Mo., Marshall—City plans paving North Lafayette St.

Mo., Springfield—Council passed resolution to pave Kickapoo Ave., macadam. O. D. Chrisman, City Engr.

Ark., Batesville—City plans to pave portion Chestnut and Main St.

Tex., Dallas—Bd. City Comrs. plan to pave portion Gaston Ave., bitulithic. H Moseley, City Engr.

Tex., Hillsboro—Citizens voted $10 000 street improvement bonds. Noted July 13.

Tex., Ozona—Crockett County voted $20,000 road bonds. Address County Clk., Ozona. Noted Feb. 10.

Tex., Stephenville—City voted $11,000 street-improvement bonds.

Tex., Taylor—City plans to pave Vance, Davis, 10th and other streets, concrete, about 75,000 sq.yd. W. L. Dozier, City Mgr. and Engr.

Okla., Tulsa—Tulsa County soon lets contract for 14 mi. paving. Address County Clk., Tulsa.

N. M., Raton—Colfax County plans to spend about $35,000 for road work. Address County Clk., Raton.

Idaho, Wallace—Shoshone County plans election to vote on $500,000 bonds for roads and bridges. Address County Clk, Wallace.

Utah, Salt Lake City—City soon to receive bids for paving State, North and Second St.

Wash., Aberdeen—City plans to pave Hume St., about $7,000. L. D. Kelsey, City Engr.

Wash., Camas—City soon lets contract for paving 29 blocks, about $15,000. F. B. Barnes, City Clk. Noted July 13.

Wash., Everett—City plans to pave Baker Ave and 34th St., also sidewalks on Hewitt Ave H. Mumm, Jr., City Engr.

Wash., South Bend—Pacific County receiving bids Aug. 22 for improving 6,000-ft. North Cove Extension Rd., 4,800-ft. Columbia-North Bak Highway and 1,000-ft. Chinook Depot Rd. C. B. Nims, South Bend, Engr.

Wash., Spokane—Council plans to improve Olive St., about $35,800. M. MacCartney, City Engr.

Wash., Spokane—Council passed ordinance to improve portion Main Ave. M. MacCartney, City Engr.

Ore., Sandy—Council soon lets contract paving portion Center St.

Calif., Modesto—Stanislaus County plans election to vote on $1,500,000 road bonds. E. H. Annear, Modesto, County Engr. Noted Apr. 20.

Calif., Redland—City plans 1½ mi. pavement on Reservoir St.

Calif., San Bernardino—Citizens defeated $15,600 bonds for street improvements and bridges.

Calif., San Jose—Santa Clara County plans to pave McLaughlin and Lincoln Ave. and Lawrence Sta. Rd. Address County Clk., San Jose.

Calif., San Jose—Santa Clara County receiving bids Aug. 21 for paving portion San Martin and Campbell Ave., concrete. Address County Clk., San Jose.

Calif., Sunnyvale—Citizens defeated $10,000 paving bonds. Noted July 6.

Que., Montreal—Bd Control plans to widen Cremazier Rd, about $15,000.

Man., Winnipeg—City soon receives bids for paving portion St. Matthews Ave., asphalt, about $11,000. W. P. Brereton, City Engr.

Bids In and Contracts Awarded

Mass., Boston—City let contract 150,000 gal. asphaltic road oil to STANDARD OIL CO., 50 Congress St, $10,350.

Mass., Haverhill—City let contract paving Winter and White St. to WARREN BROS., 59 Temple Pl., Boston, about $33,000.

Mass., Millbury—City let contract improving Main and Elm St. to C. HORNE, North Main St.

Mass., Reading—City received low bid highway from J. E. Watkins, Amesbury, $7 889. Noted July 27.

Conn., Hartford—State Highway Comn. received low bids highways (1) New Canaan Township, 4,345 lin.ft. on South Ave., (a) concrete, (b) warrenite, (c) topeka, (2) Middletown Town-

Streets and Roads (Continued)

ship, 2,688 lin.ft., (a) warrenite, (b) plain hassam, (c) concrete, (d) hassam bicomac, (3) Prospect Township, 7,700 lin.ft. grading, (4) Windsor Locks Township, 3,300 lin.ft. bituminous macadam on Spring St. as follows: H. S. Osborn, Redding Ridge, (1-a) $20,420, A. Tracy, 200 Olivia Ave., Derby, (1-c) $25,253, Warren Bros. Co., 142 Berkeley St., Boston, (1-b) $19,912; F. Arrigoni & Bro., 301 Main St., Middletown, (2-a) $22,934, Connecticut Hassam Paving Co., 902 Chapel St., New Haven, (2-b) $25,146, (2-d) $27,143, A. Brazos & Sons, 66 Oak St., (2-a) $25,830. C. A. Rossi Contracting Co., 151 Franklin St., Torrington, (3) $7,467; L. Suzio Contracting Co., Colony St., Meriden, (4) $8,649. Noted July 20.

Conn., Waterbury—State Highway Comn., Hartford, let contract paving to CONNECTICUT HASSAM PAVING CO., 902 Chapel St., New Haven, about $50,000.

Conn., Winsted—City let contract paving Main St. to WARREN BROS. CO., Berkley St., Boston, $9,200.

N. Y., Albany—(Official)—State Highway Comn., 55 Lancaster St., received low bids Aug. 7 for constructing and repairing highways in various counties as follows: Road No. 5155, Albany-Guilderland, Albany County, 5.37 mi.: F. S. Van Wageen, Rondout, $11,935; Greece Construction Co., Rochester, $11,947; Langan Construction Corporation, Albany, $12,900. Road No. 1054, Alden-Darien Center, Genesee County, 3.88 mi.: Frank D. Van Horn, New York, $20,274; E. H. Brown, Hempstead, $20,558. Road No. 5582, Leroy-Pavilion, Part 2, Genesee County, 4.53 mi.: William J. Kidd, New York, $44,893; C. R. Madden, Rochester, $55,352; L. J. Mumm Contracting Co., Buffalo, $65,094. Road No. 1098, Eagle Bay-Sixth Lake, Hamilton County, 4.22 mi.: R. A. Kalton, Albany, $35,020; Lane Construction Corporation, Meriden, Conn., $53,618; Fort Schuyler Construction Co., Utica, $53,947. Road No. 5563, Lockport-McNalls, Niagara County, 5.07 mi.: Frank D. Van Horn, New York, $62,709; Hammond-Tracey Construction Co., Inc., Middleport, $69,979; Road No. 986, Fosterdale-Mongaup Valley, Sullivan County, 10.97 mi.: Frank D. Van Horn, New York, $34,102; Bunbda & Washington, Monticello, $42,845; Harper & Higginson, Inc., Newburgh, $46,113. Road No. 1109, Cambridge-Ash Grove, Washington County, 2.09 mi.: Lynden Construction Corporation, Albany, $18,081; Alfred H. Flinn, Albany, $23,450. Repair Contract No. 1001, Broome County, 0.48 mi.: Sherman Contracting Co., Inc., Ononeta, $14,967. Repair Contract No. 995, Cayuga County, 2.76 mi.: McGreevey, McGuigan & Baum, Elmira, $24,013; Flood & Van Wirt, Hudson Falls, $25,916; Semper Bros., Watertown, $27,217. Repair Contract No. 707, Clinton County, 7.34 mi.: R. A. Kelton, Albany, $17,214; James Conway, Plattsburgh, $20,064; Spellman-Oliver Co., Chateaugay, $22,608. Repair Contract No. 998, Clinton County, 12.83 mi.: Defiance Corporation, Ticonderoga, $4,664; Kellogg Boynton, Keeseville, $4,733; E. H. Brown, Inc., Hempstead, $5,240. Repair Contract No. 1003, Cortland County, 0.42 mi.: Nash & Griffin, Norwich, $4,942; Rossney Construction Co., Buffalo, $6,472. Repair Contract No. 959, Delaware County, 1.57 mi.: Federal Pavement Corporation, New York, $35,621; Lane Construction Corporation, Meriden, $38,714; William P. McDonald Construction Co., Albany, $38,786. Repair Contract No. 941, Delaware County, 5.77 mi.: Richard Hopkins, Troy, $21,070. Repair Contract No. 986, Duchess County, 19 mi.: Thomas J. Martin, Beacon, $6,747. Repair Contract No. 992, Erie County, 9.40 mi.: Richard Hopkins, Troy, $58,465; Cold Spring Construction Co., Buffalo, $58,712; Bradley & McGreevey, Elmira, $58,846. Repair Contract No. 997, Essex County, 23.68 mi.: Defiance Corporation, Ticonderoga, $8,780; E. H. Brown, Inc., Hempstead, $9,200; A. Murphy, Albany, $9,263. Repair Contract No. 993, Monroe County, 1.50 mi.: Henry W. Roberts Co., Utica, $14,327; Langar Construction Corporation, Albany, $15,428. Repair Contract No. 845, Nassau County, 2.50 mi.: William J. Kidd, New York, $2,950. Repair Contract No. 990, Niagara County, 2.20 mi.: Charles E. Haney, Camillus, $12,995; F. H. Rhodey, Albion, $14,497; Henry P. Burgard Co., Buffalo, $15,492. Repair Contract No. 983, Onondaga County, 2.29 mi.: Henry W. Roberts & Co., Utica, $21,527; Dana W. Robbins, Inc., New York, $28,137. Repair Contract No. 1002, Onondaga County, 1.31 mi.: E. H. Wells, Savannah, $9,88[illegible]; McGreevey, McGuigan & Baum, Elmira, $9,938; J. H. Weidman, Syracuse, $10,175. Repair Contract No. 1004, Ontario County, 1 mi.: McGreevey, McGuigan & Baum, Elmira, $7,039; Dale Ebg. Co., Utica, $7,983. Repair Contract No. 994, Ontario County, 1.95 mi.: Connors & Gallavan, Elmira, $11,163; Bradley & McGreevey, Elmira, $11,336; Sweeney & Boland, Rochester, $11,496. Repair Contract No. 996, Orange County, 1.84 mi.: Jacob Stern, Stroudsburgh, Penn., $23,506; Harper & Higginson, Inc., Newburgh, $23,629; Schunnemunk Construction Co., Highland Mills, $23,677. Repair Contract No. 818, St. Lawrence County, 5.50 mi.: Lynden Construction Co., Albany, $9,084; Arthur F. McConville, Ogdensburg, $9,141. Repair Contract No. 1000, Saratoga County, 20.88 mi.: Paul Schultz, Albany, $6,137; B. Gaffney & Sons, Saratoga, $6,468. Noted July 20.

N. Y., Albany—City let contract paving Central Ave. to CRANFORD CONSTRUCTION CO., Albany, $83,946; Leedale, Barrows and Hampton St., F. M. DOLLARD, Albany, $14,577. Noted July 6.

N. Y., Fulton—City let contract paving portion East 1st St. to OSWEGO CONSTRUCTION CO., South 1st St., $18,000.

N. Y., New York—(Bronx)—(Official)—Borough received low bids street improvements from Uvalde Asphalt Paving Co., 1 Broadway, Manhattan, Union Ave., $33,254, Crotona Ave., $19,915; Barber Asphalt Paving Co., Woolworth Bldg., Manhattan, Longfellow Ave., $7,409; F. Schneider, Gleason Ave., $29,633; Asphalt Construction Co., Madison Ave. and 137th St., Manhattan, Garrison Ave., $26,257.

N. Y., New York—(Brooklyn)—(Official)—Low bids improving various streets were: B. Greico, Lawrence Ave., $4,560; Uvalde Asphalt Paving Co., 1 Broadway, Manhattan, Bay 29th St., $11,717; Cranford Co., 52 9th Ave., Gravesend Ave., $10,157, Ocean Ave., $32,846; Sicilian Asphalt Paving Co., improving and removing damage done by Newman & Carey Co., $28,491. Noted July 27.

N. Y., New York—(Richmond)—(Official)—Joseph Johnson Sons, 455 Broadway, West New Brighton, low bidder paving portion Decker Ave., $5,551. Noted July 20.

N. Y., New York—(Richmond)—(Official)—Borough rejected bids paving portion Broadway. Noted July 27.

N. Y., New York—(Richmond)—(Official)—Borough let contract paving Pelton Ave. to J. JOHNSON SONS, 455 Broadway, West New Brighton, $8,002. Noted Aug. 3.

N. Y., New York—(Richmond)—(Official)—Borough let contract improving portion Westervelt Ave. to C. VANDERBILT, 24 E. Elizabeth St., West New Brighton. Noted July 27.

N. Y., New York—(Richmond)—(Official)—Borough let contract paving south wing Richmond Terrace to Uvalde Asphalt Paving Co., 1 Broadway, Manhattan, $4,972. Noted July 27.

N. Y., Rochester—Bd. Contract and Supply let contract street improvements to WHITMORE, RAUBER & VICUNUS, Beach Ave., $24,757, Ackerman St., $10,634; J. FRIEDRICH CO., Rosewood Terrace, $8,148; A. PETROSSI, Ernestine St., $4,666.

N. J., Bayonne—City rejected bids paving 29th St. Noted July 27.

N. J., Paterson—Passaic County received low bid improving section Greenwood Lake Turnpike through Haskell and Midvale from G. F. Brackett, Clifton, $72,754. Noted June 15.

N. J., Somerville—Somerset County let contract McCurdy Rd. to W. R. MOON, Far Hills, $21,867.

N. J., Summit—City let contract paving Park Ave. and Elm St. to J. B. DOUGHERTY, 89 Mill St., Morristown, $8,396.

N. J., Trenton—City let contract paving Chamber St. to NEWTON PAVING CO., Broad St., $25,000.

N. J., Trenton—Mercer County let contract surfacing 9 roads with asphaltic road oil to J. GINDER, $31,148.

Penn., Allentown—City let contract resurfacing Linden and 10th St. to WEAVER CONSTRUCTION CO., 1306 Gordon St.

Penn., Apollo—City let contract improving Pennsylvania Terrace and Grove Ave. to HILEMAN CONTRACTING CO., New Kensington, $4,500. Noted Apr. 20.

Penn., Bradford—City let contract improving Kendall Ave. to M. APPLEGATE & SON, 6 Foreman St., $12,075.

Penn., Dorranceton—(Kingston post office)—City let contract paving Ely St. to DAVIS & PERRY, 19 Union St. Noted July 20.

Penn., Edwardsville—Borough let contract paving Myers St. to J. BANKS CONSTRUCTION CO., Bennett Bldg., Wilkes-Barre, $11,000.

Penn., Emporium—(Official)—City let contract paving Woodland Ave. to J. P. CONNELLEY, Horseheads, $54,000.

Penn., Erie—Forest County let contract 1 mi. highway Hickory Township to SOUTH SHORE CONSTRUCTION CO., Erie, $11,528.

Penn., Hazleton—City let contract paving portion Diamond St. to HASSAM PAVING CO., Worcester, Mass.

Penn., Lebanon—City received low bid paving Church St. from Dwyer & Co., $8,166.

Penn., Philadelphia—City received bid for grading streets in connection with grade crossings on Germantown and Chestnut Hill branch of Pennsylvania Railroad from J. BRENNEMAN & CO. About $22,943.

Penn., Pottstown—City let contract paving to J. B. TREXLER, Reading, $19,251.

Penn Uniontown—Fayette County let contract paving to REGAN & LYNCH, Bute Rd., $59,000, Old Connellsville Rd., $12,000.

Del., Wilmington—City received low bid paving Chestnut Hill Rd. from I. J. Hollingsworth, $14,450.

Md., Baltimore—City let contracts paving P REDDINGTON, 321 St. Paul St., Contract 137, $18,476, Contract No. 138, $6,583; BAL MORE ASPHALT BLOCK AND TILE CO., M roe and Lorman St., Contract No. 139, $120, Noted Aug. 3.

Va., Gate City—City let contract road between Gate City and Speers Ferry to CUMBERLAND CONSTRUCTION CO., Big Stone Gap, $22, between Yuma post office and Kermit, ALBERT BROS., Shawsville, $10,209.

Va. Rustburg—Campbell County let contract road from Brookneal to Falling River to J. R. FORD & CO., Lynchburg. Noted May 25.

Va., Wise—Wise County let contract grading 6 mi. Flat Woods Rd. to WOLFORD, PHIPPS & HIBULIN, Coeburn; Kaney Ridge Rd., 4 mi., M. S. DAVIS & CO., Clintwood.

Ga., Atlanta—City received bids for paving Peachtree St. from Gulf Paving Co., Chattanooga; R. M. Hudson, West Construction Co., Case & Cothran. H. V. Hurt, City Engr. Noted July 13.

Ga., Gainesville—City let contract paving West Spring and Grove St. to PRESTON-SMALL CONSTRUCTION CO., Macon. Noted Apr. 6.

Ga., Gainesville—City let contract paving West Broad St. to PRESTON-SMALL CONSTRUCTION CO., Macon. Noted May 18.

Fla., Arcadia—City let contract 158,000 sq.yd. paving to STIDHAM & HUGHES, Atlanta, $145,395; 114,000 lin.ft. curb and gutter and 25,000 lin.ft. concrete header, FARGON CONTRACTING CO., Jacksonville, $50,650. Noted July 20.

Fla., Ft. Pierce—City let contract paving Pine, Orange and Palmetto Ave., hard surface and curbs along portions Seminole Ave. and Ridge and Selene St., to J. G. COATS CO., $13,000. Noted June 15.

Fla., Tarpon Springs—City let contract paving portions Anclote, Bath, Banana and Lime St. to EDWARDS CONSTRUCTION CO., Tampa.

Ala., Guntersville—(Official)—Marshall County let contract improving 4 mi. Guntersville and Huntsville Rd. to L. C. PEARSON, Guntersville, $6,000. Noted July 6.

La., Lake Charles—City let contract paving portion Lawrence St. to DeJERSEY & NAFF, Opelousas. Noted July 13.

Ky., Barbourville—(Official)—Knox County rejected bids grading road from Barboursville to Flat Lick, 8 mi., road from Bailey's Switch to Corbin, 13 mi. Noted July 27.

Ohio, Akron—City received low bid paving Howard St. from E. Parshall, $32,455.

Ohio, Akron—City let contract paving to PAYNE ENGINEERING CO., Oakland and Beechwood St., $14,000; sidewalks, $40,000.

Ohio, Ashland—See item under "Bridges."

Ohio, Bryan—City let contract 3½-mi. road to KELLY CONSTRUCTION CO., $35,000.

Ohio, Cheviot—City let contract paving Dellnar Ave. to WELLING & GRANZ, 9th and Blum St., Cincinnati.

Ohio, Cincinnati—City let contract improving Vine St. to M. F. QUILL, Vine and Canal St., $29,345.

Ohio, Cincinnati—City let contract widening intersection 6th and Baymiller St. to Henkel & Sullivan, $6,724.

Ohio, Cincinnati—City let contract improving portion Coleraine Ave. to J. DOHERTY, JR., $79,028. Noted Feb. 17.

Ohio, Cleveland—City let contract paving Abbey St. to R. P. BURNETT, 527 Society for Savings Bldg., $33,271; Elmhurst and Idarose St., G. B. HERRING & SON, 1039 Drecel Ave., $15,850.

Ohio, Columbus—(Upper Arlington)—City let contract paving to ANDREWS ASPHALT PAVING CO., Hamilton.

Ohio, Dayton—City received low bid paving from E. RYAN, Springfield, $55,000.

Ohio, Dayton—(Official)—City let contract paving 5th St. to E. RYAN, Springfield; Brighton St., C. HOOLIHAN CO., Dayton.

Ohio, Defiance—City let contract paving portion 4th St. to JOHNSON & RITZ, Napoleon, $9,000. Noted June 8.

Ohio, Elyria—Lorain County let contract paving Kipton Rd. to ELYRIA CONSTRUCTION CO., $25,000.

Ohio, Mansfield—City let contract paving and curbing Poplar St. to G. B. HARVING & SON.

Ohio, Piqua—City let contract paving Weber St. to HENNESSEY BROS.

Ohio, Polk—City let contract improving Millsboro Rd. to FOREST CONSTRUCTION CO., Forest, $6,371.

Ohio, Reading—Hamilton County let contract paving Reading Rd. to D. P. FOLEY, Luray and Park Ave., Cincinnati, $58,024. Noted July 20 under Cincinnati.

Ohio, Tiffin—(Official)—City rejected bids improving portion St. Clair St. Noted July 27.

Ohio, Youngstown—City let contract paving Harrison and Willard St. to E. DIORIO, $5,979. Noted July 13.

Ohio, Youngstown—City let contract paving portion Calvin St. to WILSON, TIBERIC & ROBINSON, $4,802. Noted July 13.

Streets and Roads (Continued)

Ohio, Youngstown—City received low bid paving Park St. from Sterling & Black, $4,627. Noted July 13.

Ind., Ft. Wayne—City let contract street improvements to GRACE CONSTRUCTION CO., Ft. Wayne.

Ind., Goshen—City let contract paving East Washington St. to S. S. SAXTON CO., 332 South Michigan St., Chicago.

Ind., Greencastle—Henry County let contract 1 mi. gravel road to ATHEY & SLEPTON, $4,510.

Ind., Indianapolis—Bd. Pub. Wks. let paving contracts as follows: Capitol Ave. to UNION ASPHALT CONSTRUCTION CO.; Indiana Ave. to AMERICAN CONSTRUCTION CO.; Park Ave. to INDIANA ASPHALT PAVING CO.; Kealing Ave. to REPUBLIC CONSTRUCTION CO.; and Station St. to AMERICAN CONSTRUCTION CO.

Ind., Kokomo—Kokomo Asphalt Paving Co., Kokomo, at $7,775, only bidder paving portion Main St.

Ind., Kokomo—Howard County let contract road in Ervin Township to W. J. DICKSON.

Ind., Muncie—County let contracts for tarvia roads to CURTIS & CURTIS, about $16,500, Jester Rd.; about $21,950, Marion Cunningham Rd.

Ind., New Albany—Floyd County let contract road in New Albany Township to SWEENEY & GREEN, New Albany, $11,997. Noted June 29.

Ind., New Castle—Henry County let contract road Stony Creek Township to THORNBURG, PETRO & ROSS, Winchester, $11,102. Noted June 29.

Ind., North Manchester—City let contract paving 2nd St. to NORTHERN CONSTRUCTION CO., Goshen, $28,000.

Mich., Coldwater—Branch County let contract grading 5½ mi. road to S. C. BISHOPP, Hillsdale, $23,651.

Mich., Grand Rapids—Bd. Pub. Wks. let paving contracts as follows: Straight Ave., concrete, to VANDER WELE BROS., about $5,093; Caroline Pl., concrete, to H. A. HOXIE, about $3,059. W. S. Moore, City Engr.

Mich., Port Huron—City let contract paving 6th St. to J. DELOYIA, $5,408.

Mich., Somerville—Somerset County let contract improving Marconi Rd., Franklin Township, to W. R. MOON, Far Hills, $22,159.

Ill., Mattoon—City let contract paving to A. C. LOOMIS CO., Marshall Ave., $35,939, North 21st St., $10,368.

Ill., Mattoon—City let contract paving 18th and Edgar St. to C. A. MICHAELS, $24,243; North 21st St., A. C. LOOMIS, $10,233.

Ill., Oak Park—Village let contract paving Grove Ave. to H. G. GOELITZ, 810 North Blvd.

Ill., Oak Park—Village let contract paving Augusta, Thomas and Division St. to COMMONWEALTH IMPROVEMENT CO., 179 West Washington St., Chicago; Wenonah Ave. H. G. GOELITZ, 810 North Blvd.

Ill., Peoria—City let contract paving portion Fayette St. to McELWEE & BUSHNELL, Peoria, $5,824.

Ill., Peoria—City let contract improving portion Galena Rd. to BARNEWOLT CONSTRUCTION CO., $16,472. Noted July 27.

Wis., Eau Claire—City let contract paving Menomonie St. to A. LARSON. Noted July 20.

Wis., Fond du Lac—Bd. Pub. Wks. let contract improving Scott St. to G. H. STANCHFIELD, $6,000. Noted July 13.

Wis., Sheboygan—City let contract improving Park Ave. to MURPHY & CO., Manitowoc.

Iowa, Atlantic—(Official) — Cemetery Association let contract paving Cemetery Rd. to G. MANCINI, Florence, Neb., $1.25 per yd. Noted Aug. 3.

Iowa, Dubuque—City let contract paving Clay St. and Kaufman and Windsor Ave. to C. B. McNAMARA & CO.

Iowa, Dubuque—City let contract improving 4th St. to C. B. McNAMARA & CO.

Iowa, Ft. Dodge—City let contract improving 7th, 18th and 19th St., to BRYANT ASPHALT PAVING CO., Waterloo. Noted June 22.

Iowa, Idagrove—City transferred contract for paving let to Johnson Construction Co., Chicago, to NATIONAL ROOFING CO., Omaha. Noted July 6.

Iowa, Sioux City—City received low bid paving portion West 14th St. from M. L. Finn Paving Co., $1.33 per yd.; Rich, Newton and Vine St., W. B. Carter, $1.28 per yd. Noted July 20.

Minn., Hibbing—City let contract 1½ mi. road in Stuntz Township to J. C. BROWN.

Minn., Robbinsdale—City let contract paving Crystal Lake Ave. to SCHUGUN BROS., Minneapolis, $25,907. Noted Aug. 3.

Minn., Rochester—City let contract improving Cherry St. to FIELDING & SHEPLEY CO., St. Paul.

Minn., Winona—City let contract paving Jackson and 5th St. to C. H. BITTNER, $11,253.

Neb., Beatrice—City let contract 38,000 sq.yd. paving and 24,000 lin.ft. curb and gutter to ABEL CONSTRUCTION CO., Lincoln, about $30,000.

S. D., Yankton—City let contract paving portions Douglas, Broadway, Linn, 3rd and 4th St. to C. H. ATKINSON & CO., Watertown, $1.35 per sq.yd.

N. D., Crosby—Divide County let contract roads to C. D. SMITH, Minot, H. B. BURROWS, Crosby, and O. BULBRANSON, Ambrose.

Mo., Kansas City—City let contract paving and curbing portion Elmwood Ave. to BROWN & HALL CONSTRUCTION CO., 1211 East 26th St., $5,719.

Ark., Paragould—City let contract street improvements to KAW PAVING CO., Topeka, Kan., about $23,000.

Ark., Stuttgart—Comrs. St. Improvement Dist. No. 5 let contract paving, curbing and guttering to M. J. COLE, Jr., Little Rock.

Tex., Bryan—City let contract paving Lamar and Monroe St. to KAW PAVING CO., Topeka, Kan.

Tex., Dallas—City let contracts for paving Cleveland Ave. and South Blvd. to WESTERN PAVING CO.

Tex., Houston—City let contract paving Cleveland Ave. and South Blvd. to WESTERN PAVING CO., Oklahoma City,

Colo., Longmont—City let contract paving in Dist. No. 2 to PHILLIPS & SON, Denver, $33,000. Noted Mar. 30.

Idaho, Boise—City let contract 12 mi. sidewalks and crosswalks, Improvement Dist. Nos. 8 and 9, S. A. FORTER, $45,536.

Wash., Bellingham — City let contract paving Maryland St. to MORAN BROS., Nellingham, $5,088.

Wash., Bremerton—City let contract paving portion Front St. to ERICKSON, ANDERSON & HICKS, Tacoma, $9,000.

Wash., Olympia—(Official) — State Highway Comn. let contract surfacing portion Pacific Highway to L. F. KLINE, 1323 North West Bank Bldg., Portland, $4,280. Noted July 13.

Wash., Seattle—City received low bid concrete walks on 22nd Ave., N. E., from Silverton & Williams, 2823 South J St., Tacoma, $8,175.

Wash., Seattle—Bd. Pub. Wks. let contract paving Warren Ave. to P. J. McHUGH, 3rd Ave. N. and Mercer St., $32,083. Noted Aug. 3.

Wash., Seattle—City let contract grading to G. A. BANDARET, Bellevue, $14,058.

Wash., Spokane—Spokane County rejected bids for 1 mi. highway at Valley Ford. J. W. Strack, County Engr.

Wash., Waterville—Douglas County let contract surfacing Highway 6-A to MOHR CONSTRUCTION CO., $11,795.

Calif., Bakersfield—City rejected bids for improving N, O and F St.

Calif., Berkeley—City let contract paving portion University Ave. to CLARK & HENERY CONSTRUCTION CO., Sacramento. Noted July 27.

Calif., Berkeley—City let contract sidewalks Carlton St. to OAKLAND PAVING CO., 5000 Broadway, Oakland.

Calif., Los Angeles—Los Angeles County let contract paving portion Mesa Dr. to A. L. McCRAY, 234 West 28th St., $11,380. Noted Aug. 3.

Calif., Martinez—Contra Costa County let contract about 11 mi. highway to O'BRIEN BROS., Martinez, $140,000.

Calif., Roseville—Placer County let contract highway between Roseville and Penryn to A. C. McLEAN CO., 320 Market St., San Francisco, $36,225.

Calif., San Bernardino—San Bernardino County plans highway in Lytle Creek Cañon by convict labor.

Calif., Santa Barbara—City let contract paving portion Micheltorena St. to MUNICIPAL IMPROVEMENT CO., $14,532.

Calif., Santa Cruz—City let contract improving High St. to W. E. MILLER, $14,243. Noted Mar. 30.

Calif., Sawtelle—City let contract paving Santa Marie Blvd. to OSWOLD BROS., 455. O. T. Johnson Bldg., Los Angeles, $10,820.

Calif., Stockton—City let contract curbing and paving roadways Bienvide Park to GASKELL & FOLEY, $7,747.

Calif., Whittier—City let contract paving Philadelphia St. to LOS ANGELES PAVING CO., Los Angeles, $12.99c. per sq.ft.

Ont., Ottawa—City let contract paving Dalhousie St. to OTTAWA CONSTRUCTION CO., $10,718.

Ont., St. Thomas—City let contract paving portion Moore St. to A. E. PONSFORD, LTD. Noted June 29.

Ont., Windsor—City let contract concrete walks to MUNICIPAL CONCRETE CO., Ingersoll, $60,000.

Man., Winnipeg—City let contract paving Tache Ave. to CUSSON LUMBER CO.

N. B., St. John—City let contract paving North and South Market St. to COREY & STEVENS.

INDUSTRIAL WORKS

Proposed Work

Maine, Waterville—Hollingsworth & Whitney Co., Winslow, making plans for addition. G. H. Marr, Engr.

Mass., Chelsea—Southwestern Cone Co., 191 Williams St., making plans for 3-story, 50x125-ft. factory. About $20,000. S. S. Eisenberg, 5-A Everett Ave., Arch.

Mass., Everett—Market Forge Co., 217 5th Ave., Chelsea, making plans for 2-story, 48x200-ft. factory. S. S. Eisenberg, 50 Everett Ave., Chelsea, Arch. About $20,000.

Mass., New Bedford—Rotch Mills making plans for two 1-story, 80x175-ft. and 30x75-ft. additions. C. F. Mains, Boston, Arch.

N. Y., Cobleskill—Schoharie State School of Agriculture receiving bids Aug 15 for dairy and horse barn. L. F. Pilcher, Albany, State Arch. (See adv. Aug. 3 issue.) Noted July 6.

N. Y., New York—(Brooklyn)—Gotham Can Co. making plans for 1-story, 80x180-ft. storage building. About $10,000. C. D. Henriques, 60 Eagle St., Pres.

N. Y., New York—(Manhattan)—Steinway & Sons making plans for 10-story, 19x100-ft. and 60x100-ft. warehouse and show-room building. W. K. Bennedict, 527 5th Ave., Arch. Noted July 27.

N. Y., Rochester—Clark Paper and Manufacturing Co. made plans for 2-story, 85x131-ft. warehouse. About $30,000. F. Brockett, Cutler Bldg., Arch.

N. Y., Tonowanda—Acheson Graphite Co. making plans for three 1- and 2-story factories on River Rd. About $150,000.

Penn., Allentown—City plans 3-story storehouse. C. Wrirbach, City Hall, Arch.

Penn., Chester—Chester Paper Co. plans additions. About $250,000.

Penn., Clifton Heights—Stewart & Fleet making plans for additions to Caledonia Woolen Mills. F. H. Hahn, Philadelphia, Arch.

Penn., Harrisburg—Pennsylvania Milk Products Co. making plans for 1-story, 40x100-ft. milk depot, dairy building, etc. About $35,000. C. D. Colley Co., Central Bldg., Pittsburgh, Arch. Noted June 8.

Penn., Philadelphia—Gemehl Camille, c-o American Taxicab Co., 1413 Locust St., making plans for 6-story garage. H. Trumbauer, Land Title Bldg., Arch.

Penn., Sharon—Petroleum Iron Works Co. plans addition.

Del., Claymont—Worth Bros. & Co., Weidner Bldg., Philadelphia, plans 1-story steel mills. F. B. Graser, 622 Commercial Traders Bldg., Philadelphia, Engr.

Md., Baltimore—Baltimore Enamel and Novelty Co. making plans for 2-story, 177x411-ft. addition. About $150,000. G. E. Painter, 32 North Charles St., Arch. Noted June 22.

Va., Alexandria—C. King & Son made plans for rebuilding 3-story, 92x100-ft. warehouse. About $30,000. W. L. Clark, 311 South Patrick St., Arch.

Va., Alexandria—Knots Throwing Co. plans 2-story, 100x293-ft. silk mill. A. Freeder, 25 Madison Ave., New York, Pres.

Va., Charlottesville—J. S. Young & Co. plans plant. About $50,000. J. S. Young, Hanover, Penn., Gen. Mgr.

N. C., Charlotte—J. N. Williamson & Sons Co. plans 50x166-ft. addition to warehouse. About $50,000.

Ky., Newport—Automobile Service Co. plans 1-story, 40x110-ft. garage. About $35,000. H. C. Spinks, East 6th St., Secy.

Ind., New Albany—Conrad Kammerer Glue Co. plans plant.

Mich., Detroit—National Baking Co. granted permit for 1-story plant at 568 St. Antoine St. About $11,000.

Mich., Howell—L. E. Howlett in charge of organization of company to build factory. About $100,000.

Mich., Pontiac—American Forging and Socket Co. plans addition.

Ill., Chicago—Illinois Smoked Meat Co. plans packing plant. About $170,000.

Ill., Chicago—Templeton Kenly & Co., 1020 South Central Ave., plans addition.

Ill., Chicago—(Hawthorne)—Western Electric Co. making plans for addition. W. R. Kattele, Arch. C. Barnes, 22nd St. and 48th Ave., Supt. of Constr.

Ill., Joliet—Powdered Coal Engineering and Equipment Co. plans plant. About $225,000.

Wis., Kohler—Kohler Manufacturing Co. soon receives bids for 1-story, 75x200-ft. addition. Brust & Phillipp, 506 Free Press Bldg., Milwaukee, Arch. Noted Mar. 25.

Wis., Madison—Overland Madison Co. making plans for 4-story, 66x154-ft. garage and storage building. J. R. Law, Gay Bldg., Arch.

Wis., Milwaukee—Bradley Knitting Co. plans addition. Federal Engineering Co., 218 Stephenson Bldg., Engr.

Industrial Works (Continued)

Wis., River Falls—Whitcomb & Sutherland plans to rebuild Prairie mill, recently destroyed by fire with loss of $10,000.

Wis., Sauk City—Farmers Packing Co. making plans for 3-story, 80x100-ft. packing plant. About $65,000 M. P. Schneider, 401 West Doty St., Madison, Arch. and Engr. Noted Dec. 9.

Wis., Waukesha—Werre Aluminum Foundry Co. making plans for addition. T. S. Watson Co., Majestic Bldg., Milwaukee, Engr.

Iowa, Des Moines—Ford Motor Co. making plans for 6-story service station. Albert Kahn and E. Wilby, 58 West LaFayette Blvd., Assoc. Arch. Noted May 25.

Iowa, Sioux City—R. E. Betz plans warehouse at 4th and Chamber St. About $25,000.

N. D., Fargo—E. Smith and G. Runner plan to build 2-story, 50x140-ft. warehouse.

Mont., Butte—N. O. Nelson Manufacturing Co. plans warehouse. About $10,000.

Mo., St. Louis—D. L. Parrish, 3126 Olive St., plans addition to laundry. About $30,000.

Mo., Sikeston—Farmers Supply Co. plans 3-story warehouse. About $35,000.

Mo., Sugar Creek—Standard Oil Co. plans parafine plant. G. Moffet, Local Mgr.

Wash., Darrington—Galbraith, Bacon & Co., Seattle, plans plant at Darrington. About $1,000,000.

Ore., Portland—H. Liebes & Co. making plans for 5-story building. About $140,000. J. V. Bennes, Portland, Arch.

Bids In and Contracts Awarded

Maine, Foxcroft—American Woolen Co. let contract 4-story, 60x60-ft. addition to E. W. PITMAN, Bay State Bldg., Lawrence. About $12,000. Noted June 22.

Vt., Burlington—Crystal Confectionary Co., College St., let contract 4-story, 60x80-ft. factory to KIESLICH CONSTRUCTION CO.

Mass., Attleboro—Crown Manufacturing Co. let contract addition to CRUISE & SMILEY CONSTRUCTION CO., Pawtucket, R. I.

Mass., Beverly—E. F. Bell Co., 55 Bow St., will build 2-story, 36x51x80-ft. addition by day labor. About $10,000.

Mass., Danvers—City received low bid for storehouse and service building from C. S. Cunningham & Sons Co., 101 Tremont St., Boston. About $47,000. Noted July 6.

Mass., Mansfield—S. W. Card Manufacturing Co. let contract 4-story, 60x150-ft. addition to E. J. CROSS CO., 82 Foster St., Worcester. About $50,000. Noted May 18.

Mass., Peabody—Verza Leather Co. let contract 3-story, 40x150-ft. factory to J. O. BALLENT, 43 Emerson St. About $25,000.

Mass., Quincy—Fore River Ship Building Co., 97 East Howard St., let contract 2-story factory to WESTINGHOUSE, CHURCH, KERR & CO., 37 Wall St., New York. Noted Feb. 17.

Mass., West Springfield—Gilbert & Baker Manufacturing Co. let contract factory to H. WALES LINES CO., Meridan, Conn. About $200,000. Noted May 11.

Mass., Winchester—Kelley & Hawes, 23 Railroad Ave., let contract 1-story, 111x130-ft. garage to F. C. ALEXANDER, Old South Bldg., Boston. Noted May 11.

Conn., Hartford—Connecticut Electric Steel Co., Inc., 50 Church St., New York, will build 125x158-ft. foundry by day labor. About $15,000.

Conn., New Britain—North & Judd Manufacturing Co let contract addition to B. H. HIBBARD CO, 1[illegible]0 Main St. Noted June 15.

Conn., Rockville—E. J. Martin Sons let contract 3-story, 52x112-ft. factory to F. HUTCHINSON, 24 Talcott Ave. Noted July 27.

Conn., Waterbury—American Brass Co. let contract 3-story, 75x150-ft. factory to SPERRY ENGINEERING CO., 82 Church St., New Haven.

N. Y., Buffalo—Larkin Co. let contract addition to ABERTHAW CONSTRUCTION CO., 27 School St., Boston, Mass. About $40,000. Noted June 22.

N. Y., Buffalo—Monarch Knitting Mill Co. let contract 4-story, 71x184-ft. mill to R. E. WILLIAMS, Iroquois Bldg. About $40,000.

N. Y., Endicott—International Time Recording Co let contract 50x200-ft. factory to A. E. BADGLEY, Stone Opera House, Binghamton.

N. Y., Little Falls—Little Falls Paper Mill let contract 2-story, 42x46-ft. mill to W. P. THOMPSON. About $15,000.

N. Y., Niagara Falls—Titanium Alloy Manufacturing Co. let contract machine shop to PECKHAM CONSTRUCTION CO. About $30,000.

N. Y., Rochester—J. Erion, 346 East Ave., let contract 2-story, 55x200-ft. storage building, show room and garage to ERION-GILBERT CONSTRUCTION CO., 346 East Ave. About $40,000.

N. Y., Roosevelt—U. S. Metal Refining Co. let contract 2-story, 59x115-ft. laboratory to C. FLOCKEN, 123 Liberty St., New York.

N. J., Bayonne—Standard Oil Co. let contract 1-story barrel gluing factory to H. D. BEST CO., 52 Vanderbilt Ave., New York. About $10,000.

N. J., Trenton—John Bartley Crucible Co. let contract 3-story, 75x100-ft. addition to LEWIS LAWTON & SON, Broad St. Bank Bldg. About $25,000.

Penn., Ingram—(Pittsburgh post office)—Pittsburgh Railway Co. let contract 1-story, 54x254-ft. car barns to D. T. RIFFLE, Keenan Bldg., Pittsburgh.

Penn., Millvale—Pittsburgh Railways Co. let contract car barns to W. F. TRIMBLE & SONS, 1719 Penn Ave., N. S., Pittsburgh. About $35,000. Noted Oct. 14.

Penn., Mt. Pleasant—L. E. Smith Glass Co. let contract 1-story, 80x200-ft. factory to T. WIBLE, Greensburg.

Penn., Newcastle—Johnson-Bronze Co. let contract foundry to ANDERSON CONSTRUCTION CO., New Castle. About $85,000. Noted June 1.

Penn., Oil City—Butler Wholesale Grocery, Leeddom Bldg., Butler, let contract 3-story, 40x100-ft. warehouse to L. O. BOQUIN, Oil City.

Penn., Philadelphia—Harshaw Fuller & Goodwin Co. let contract 1-story, 150x200-ft. factory to A. R. RAFF, 1635 Thompson St.

Del., Wilmington—Pussey & Jones Co. let contract 2-story, 70x280-ft. erecting shop to G. F. PAWLING & CO., 1432 South Penn Sq., Philadelphia.

Ohio, Middletown—Wardlow-Thomas Paper Co., 717 Vardertser St., let contract 2-story, 40x90-ft. mill to C. A. IRWIN CO., Reilly Bldg., Hamilton. About $16,000.

Ohio, Toledo—Bock Rolling Bearing Co. let contract 2-story, 60x170-ft. factory to SCHMIDT & HARWOOD CO., Builders Exchange. About $65,000.

Ohio, Youngstown—Motor Mart let contract garage to HELLER BROS. About $25,000.

Ind., Evansville—G. W. Herman, 709 Main St., let contract 3-story factory to M. J. HOFFMAN CONSTRUCTION CO., 321 Sycamore St. About $20,000.

Mich., Detroit—Fourteenth Avenue Cartage Co. let contract 2-story garage at 423 Wabash Ave. to A. P. AGNEW CO. About $27,000.

Mich., Detroit—Goebel Brewing Co., Sherman St., let contract addition to C. KELLER CO., Detroit.

Mich., Detroit—Ireland & Mathews Manufacturing Co. let contract factory to WALBRIDGE & ALDINGER, 2356 Penobscot Bldg. About $400,000. Noted May 25.

Mich., Muskegon Heights—Enterprise Brass Works let contract 3-story, 50x150-ft. machine shop to J. H. SMITH, Houseman Bldg., Grand Rapids. About $35,000.

Ill., Maywood—A. Kronquist, 514 North 8th Ave., let contract 2-story, 62x93-ft. factory to MENKE, THIELBERG CO., 139 North Clark St., Chicago. About $12,000.

Wis., Milwaukee—Milwaukee County House of Correction let contract factory to STERLING ENGINEERING AND CONSTRUCTION CO., 720 Caswell Blk. About $80,000. Noted Feb. 3.

Iowa, Iowa Falls—Gehring Auto Co. let contract 2-story storage building to B. Y. CONSTRUCTION CO., Dayton. About $10,000. Noted Mar. 30.

Minn., Minneapolis—Banner Grain Co., 317 Chamber of Commerce Bldg., let contract 5-story elevator to BURRELL ENGINEERING & CONSTRUCTION CO., 323 South La Salle St., Chicago. About $45,000.

Kan., Topeka—Wolff Packing Co. let contract 5-story addition to A. TODD, 179 West Washington St., Chicago. About $60,000. Noted June 29.

Neb., Omaha—Morris & Co. let contract fertilizer plant to GRANT PARSONS. About $40,000.

N. D., Cleveland—Contract Simonitsch elevator let to MEINSCKE BUILDING CO., St. Paul, Minn.

Mo., Kansas City—Patent Vulcanite Manufacturing Co. let contract 1-story, 90x158-ft. factory to W. BECKER, 3917 Scarritt Ave. About $15,000.

Tex., Houston—Cheek-Neal Coffee Co. let contract 5-story plant to JAMES STEWART & CO. About $100,000. Noted July 20.

FEDERAL GOVERNMENT WORK

Proposed Work

N. Y., New York—(Borough of Brooklyn)—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Sept. 12. Noted Apr. 27.

D. C., Washington—Air Compressors—Bureau of Supplies and Accounts, Navy Dept., receiving bids Aug. 15 under Schedule 9981 for 46 air compressors.

D. C., Washington—Sewers—Bids received Sept. 5 at Office of Commissioners, Room 509, District Bldg., for outlet sewers. D. C. Oliver, Comr. (See adv.)

Va., Norfolk—Locomotive—Bureau of Supplies and Accounts, Navy Dept., Washington, receiving bids Aug. 22 under Schedule 9982 for 6-wheel, saddle tank locomotive.

S. C., Charleston—Fence—Light House Inspector, Charleston, receiving bids Aug. 15 for iron and brick fence with stone caps, copings and trimmings at Charleston Light-House Depot.

Fla., Jacksonville—Dredging—Bids received Sept. [illegible] Engineer Office, Jacksonville, for dredging and rock removal at Miami Harbor. (See adv.)

Fla., Orlando—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Sept. 12. Noted May 25.

La., Ruston—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Aug. 12 for repairing.

Ill., Great Lakes—Filter Plant—Bureau of Yards and Docks, Navy Dept., Washington, D. C., receiving bids Aug. 26.

Tex., Dallas—Iron and Steel—U. S. Engineer Office, Dallas, receiving bids Aug. 31.

Calif., San Francisco—Pipe Line—Bureau of Yards and Docks, Navy Dept., Washington, D. C., receiving bids Aug. 26. Noted Aug. 5.

Panama—Miscellaneous Supplies—Maj. E. I. Brown, Sen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Aug. 18 under Circular 1068.

Bids In and Contracts Awarded

Mass., Newburyport—Post Office—Low bids received Aug. 1 (a) limestone, (b) sandstone, were: Freimeyer & Hanna, New York, (a) $83,000, (b) $87,000; J. A. Monroe, North Attleboro, (a) $86,240, (b) $88,240; E. T. Abbott Construction Co., New York, (a) $86,900, (b) $89,000. Noted June 29.

N. Y., Salamanca—Post Office—Government let contract to DUROLITHIC CO., Buffalo, N. Y.

Md., Baltimore—Dredging—Government let contract, Susquehanna River, to DORSEY & MILLER, Washington, D. C. About $11,375. Noted June 15.

D. C., Washington—Cast-Iron Pipe—Government let contract to LYNCHBURG FOUNDRY AND MACHINE CO., Lynchburg, Va., 12-in. pipe at $28.90 per ton and water-pipe specials at $60 per ton. Noted July 20.

D. C., Washington—Radio Sets—Government let contract (2) to F. LOWENSTEIN, 397 Bridge St., New York (Brooklyn), $6,400 each.

La., New Orleans—Custom House—Low bids received Aug. 2 remodeling custom house were: J. C. Unkefer & Co., Minerva, Ohio, $313,000; Hanna & Mitchell, New Orleans, $344,972; L. F. Alexander, New Orleans, $368,960. Noted June 29.

Ohio, Cincinnati—Cement—U. S. Engineer Office let contract repairing Dam 12, Kentucky River, to KOSMOS PORTLAND CEMENT CO., INC., 614 Paul Jones Bldg., Louisville. About $4,025. Noted Aug. 3.

Ohio, Cleveland—Stonework—Government let contract stone superstructure on breakwater to E. GILLEN DOCK, DREDGE AND CONSTRUCTION CO., Racine, Wis., $50,375. Noted Aug. 3.

Utah, Springville—Buildings—Government received bids buildings at Fisheries Sta., (a) hatchery, (b) residence, from Carter Bros., Springville, (a) $14,008, (b) $6,448; Stanley Works, New Britain, Conn., (a) $16,989, (b) $9,225. Noted July 13.

Ariz., Camp Verde—Building—Comr. Indian Affairs, Washington, received bids from H. Smith, Montazuma, Iowa, $18,994; W. D. Lovell, Minneapolis, $18,300; White & Jett, Prescott, $40,834.

Ore., Marshfield—Buildings and Masts—Government let contract for 5 buildings and 2 wireless masts at Naval Radio Station to W. W. LADD, Marshfield. About $19,426. Noted June 29.

CANALS, DITCHES AND IRRIGATION

Proposed Work

R. I., Providence—Dredging—City soon receiving bids for dredging along sea wall and to state pier in Providence Harbor.

N. Y., Albany—Barge Canal Work—Canal Bd approved plans for Rochester Barge Canal Terminal. F. M. Williams, State Engr.

N. Y., New York—(Manhattan)—(Official)—Dredging—R. A. C. Smith, Comr. Docks, Pier "A," Battery Pl., North River, receiving bids Aug. 16 for dredging at West 209th St., Harlem River.

La., Lafayette—Dredging—Abbeville Refinery interested in dredging of Vermilion River from Whittingtons landing to Pin Hook Bridge.

Ind., Brazil—Drainage—Contract will be let about Aug. 25 for Mizer Ditch, including straightening, widening and deepening channel of Eel River. About $250 000. Noted June 22.

Ind., Monticello—Ditch—White County plans Hollingsworth Ditch. About $70,000. D. Heaton, Monticello, County Engr.

Ill., Chicago—Dredging—Sanitary District of Chicago making plans dredging North Shore Channel, 15,000 cu yd. G. M. Wisner, Engr.

Wis., Green Bay—Ditch—Bovina D. Black Creek Drainage District making preliminary plans for ditch and pumping station. About $7,000. McClellan Dodge, 444 Washington Bldg., Engr.

Iowa, Glenwood—Drainage—Mills County receiving bids Aug. 24 for rebuilding Mills Fremont Drainage Ditch. About $13,000. F. M. Jackson, Engr. Noted June 1.

Minn., Benson—Ditch—Swift County receiving bids Aug. 21 for Ditch No. 13. D. P. Carney, Benson, County Audr. Noted Dec. 16.

Minn., Foley—Ditch—Benton County receiving bids Aug. 30 for Ditch No. 14. About $6,639. J. E. Kasner, Foley, County Audr.

Canals, Ditches and Irrigation (Continued)

Minn., Marshall—Ditches—Lyon County receiving bids Aug. 21 for County Ditches Nos. 20 and 21. About $14,439 and $7,560 respectively. E. S. Shepard, Marshall, County Audr. Noted Dec. 20.

Minn., St. James—Ditch—Watonwan County receiving bids Aug. 15 for Judicial Ditch No. 11. J. C. Jensen, St. James, County Audr.

Kan., Ottawa—Drainage—Preliminary plans made for organizing drainage district. O. O. Wolfe, Chn. Com. V. R. Parkhurst, Topeka, Engr.

Kan., Quenemo—Drainage — Quenemo Drainage District made preliminary plans for draining about 11,000 acres. V. R. Parkhurst, Topeka, Engr.

Neb., Curtis—(Official)—Drainage—No bids received Aug. 1 by Drainage Dist. No. 1, Frontier County, for 50,000 cu.yd. excavation. D. O. Nelson, Curtis, Pres. Noted July 20.

Mo., St. Louis — (Carondelet) — Reclamation—City appropriated $100,000 for reclamation of river front.

Colo., Walsenburg—Ditch—Surveys being made for headgate of Four-Mile Ditch on Cucharas River.

Wash., Issaquah—Drainage—Drainage District No. 4 receiving bids Aug. 15 for draining 1,000 acres. About $25,000.

Ore., Riverside—Dam—Warm Springs Irrigation District votes Aug. 15 on $750,000 bonds for dam and distributing system. Noted June 22.

Bids In and Contracts Awarded

N. Y., New York—(Manhattan)—Dredging and Rock Removal—Only bid received July 31 for dredging and rock removal at foot of East 90th St., East River, Contract 1510, from P. Sanford Ross, Inc., 135 Bay St., Clifton, S. I., $21,000.

N. J., Bay Head—(Official)—Dredging—Bd. Commerce and Navigation, State House, Trenton, let contract, section proposed inland waterway from Cape May to Bay Head, in Barnegat Bay from Haven's Cove below Mantoloking to Herring Island, to HILL DREDGING CO., Atlantic City, $12,000. Noted July 20.

Miss., Louisville—(Official)—Drainage—Contract excavation, 200,000 cu.yd., in Town Creek Drainage District, Winston County, let to SWAMP DREDGING CORPORATION, Tupelo, 7½c. per yd. Noted Mar. 30.

Ind., Brownstown—Drainage—Jackson Township let contract Mutton Creek Ditch to NAPPANEE DRAINAGE CO., Nappanee. About $31,326. Noted May 25.

Ind., Winamac—Ditch—Contract A. M. Leach Ditch let to H. HOMAN, Plymouth, $11,400. Noted June 8.

Ill., Hillview—Drainage—Hillview Drainage and Levee District let contract ditch excavation, about 220,578 cu.yd., to A. V. WILLS & SON, St. Louis, Mo., $41,910. Noted July 13.

Ill., Mt. Sterling—Reclamation—Big Prairie Drainage and Levee District let contract to TRAUT & OSNER, Beardstown, $90,000.

Wis., Racine—Drainage—Root River Drainage District let contract to NATIONAL DRAIN TILE CO., $22,950. Noted July 13.

Iowa, Mason City—Drainage—C. Axelson, Clear Lake, $19,975, submitted low bid for drainage work in District No. 38.

Iowa, Sac City—Drainage—Sac County let contract improving Drainage District No. 56 to CEMENT PRODUCTS CO., Sac City, $23,670. Noted July 20.

Iowa, Sidney—Ditch—Fremont County let contract Fisher Creek Ditch to MILLS CONSTRUCTION CO., Logan.

Iowa, Webster City—Drainage—Contract Castreo branch of Drainage District No. 4 let to JENSEN & JENSEN, Williams, $9,222.

Minn., Fergus Falls—Otter Tail County let contract Ditch No. 55 to OLAF PARY, New York Mills, $4,190.

Minn., Fergus Falls—Ditch—Otter Tail County rejected bids for Ditch No. 57.

Minn., Long Prairie—Ditch—Todd County let contract Ditch No. 31 in Eagle Valley to OLE STEE, Clarissa.

Minn., Long Prairie—Ditches—Contract Ditches Nos. 35 and 36 let to GIBBS & McGILLURA, Staples, at $1,876 and $5,805 respectively.

Minn., Morris—Ditch—Stevens County let contract Ditch No. 21 to C. A. POGUE & CO., Grand Rapids. About $21,962. Noted July 13.

Minn., Morris—(Official)—Ditch—Stevens County let contract Ditch No. 18 to C. A. POGUE & CO., Grand Rapids, $70,600. Noted July 27.

Minn., Willmar—Ditch—Kandiyohi County let contract widening and deepening Ditch No. 10 to NORTHERN MINNESOTA DRAINAGE CO. About $15,144. Noted July 13.

Idaho, Mackay—Irrigation—Contract Big Lost River Irrigation project, reclaiming about 70,000 acres, let to UTAH CONSTRUCTION CO., Ogden, Utah

Calif., Anderson—Irrigation—Anderson-Cottonwood Irrigation District will build diversion dam across Sacramento River by day labor. About $46,500. H. H. Henderson, Engr. Noted Mar. 2.

MISCELLANEOUS

Proposed Work

Vt., Brandon—Elimination Grade Crossing—Rutland Railroad Co. making plans, Farrington Crossing. J. G. Skillinger, Engr.

Mass., Gloucester—Seawall and Pier—City making plans, Commercial St. About $10,000. J. H. Griffen, City Engr.

Conn., Hartford—Steam Shovel—City plans to purchase steam shovel for Street Dept. Roscoe N. Clark, City Engr.

N. Y., Buffalo—Train Shed—Delaware, Lackawanna & Western R.R., made plans, 135x675-ft. About $167,000. G. J. Ray, Hoboken, N. J., Ch. Engr.

N. Y., New York—(Manhattan)—Gateway—City made preliminary plans for Andrew H. Green memorial gateway at entrance to Central Park, 110th St. and 7th Ave. C. R. Lamb, 25 6th Ave., Arch.

N. Y., Ogdensburg—Pier—New York Central R.R. plans to rebuild pier at lighthouse slip, 290-ft. G. W. Kittredge, Grand Central Terminal, New York, Ch. Engr.

N. Y., Syracuse—Bathhouse—City soon receives bids for bathhouse at Burnet Park swimming pool.

N. J., Long Branch—Swimming Pool—D. M. Ach, Arch., 1 Madison Ave., New York, making plans, 1-story, 20x40 ft. About $10,000.

Penn., Coatesville—Fire House—West End Fire Co., No. 3, making plans, 2-story, 40x100-ft. About $5,000. Kern & Carroll, Pennegar Bldg., Arch.

Penn., Erie—(Official)—Drift Catcher—City receiving bids Aug. 18 for series of 20 rein.-con. piers, connected by walkway at top, to form Drift Catcher across Valley of Mill Creek, Glenwood Park. T. Hanlon, City Clk. F. G. Lynch, City Engr. (See adv. Aug. 3 issue.)

Penn., Philadelphia—Rink—Philadelphia Ice Rink Co. plans, 127x217-ft., 42nd St. near Jefferson Ave. H. Trumbauer, Arch.

Penn., Philadelphia—Recreation Building—Bd. of Recreation plans, 16th and Wingohocking St. C. E. Albright, City Engr.

Penn., Renova—Engine House and Office Building—Pennsylvania R.R. making plans, 1-story. About $10,000. W. G. Coughlin, Broad St. Station, Philadelphia, Arch.

Ga., Macon—Underpass—Central of Georgia Ry. plans, Pine St. C. K. Lawrence, Savannah, Ch. Engr.

Ala., Mobile—Docks—Louisville & Nashville R.R. made plans for rebuilding. W. H. Courtenay, Louisville, Ky., Ch. Engr.

Tenn., Chattanooga—Wharf—City made plans. About $100,000. R. Hooke, City Engr. Noted Feb. 10.

Ohio, Akron—Elimination Grade Crossings—Porthage County Club interested in elimination of 12 grade crossings from Mill to South Main St. About $12,000,000.

Ohio, Cincinnati—Park Improvements—Bd. Park Comrs. making plans. About $1,000,000, of which $200,000 now available. G. E. Kessler, Kansas City, Arch. Noted Nov. 18.

Ohio, Cleveland—Playgrounds and Bathhouse—Council voted bonds, $65,000 for playgrounds, $30,000, bathhouse at St. Clair Ave. and East 55th St., and $33,000, public comfort stations in 6 wards. Noted June 22.

Ohio, Cleveland—Stadium—City plans, Brookside Park. About $20,000. R. Hoffman, City Engr.

Ohio, Cleveland—Swimming Pool—City receiving bids Aug. 16, Garfield Park. R. Hoffman, City Engr. Noted June 29.

Ohio, Columbus—Levee—Bd. Comrs. receiving bids Sept. 2 for levee in Pleasant Township. J. Scott, Clk. Bd. Comrs.

Ohio, Elyria—Elimination of Grade Crossings—New York Central R.R. plans, Olive St. and Abbey Rd. D. C. Noon, Cleveland, Gen. Mgr.

Ohio, Gloucester—Public Landing—City making plans for wall in underwater at Town Landing at Commercial St.

Ohio, Tiffin—Creek Improvements—City made plans straightening, widening and deepening Rock Creek from Coe St. a distance of 1 mi. R. R. Dumm, Engr. About $31,000. Noted Feb. 10.

Ohio, West Park—Fire Station—City receiving bids Aug. 21, Lorain Ave. F. Feutcher, Clk. Noted July 20.

Ohio, Wooster—Animal Building—Bd. Control of Ohio Agricultural Experiment Station receiving bids Aug. 15. W. H. Kramer, Secy.

Ind., Monticello—Park—City making plans. F. R. Fisher, City Clk.

Ind., New Carlisle—Subways—New York Central R.R., Chicago, South Bend & Northern Indiana Railway Co. and Chicago, Lake Shore & South Bend Railway Co. plan 3 separate subways at their intersection with Lincoln Highway. G. C. Cleveland, St. Clair Ave. and West 3rd St., Cleveland, Ohio, Ch. Engr. New York Central R.R. C. D. Emmons, 102 North Michigan St., South Bend, Gen. Mgr. Chicago, South Bend & Northern Indiana Railway Co.

Ill., Alton—(Upper Alton)—Entrance Gates—Bd. of Administration, Springfield, receiving bids Aug. 15 for entrance gates at Alton State Hospital. J. B. Dibelka, 130 North 5th Ave., Chicago, State Arch.

Ill., Chicago—Field House—Lincoln Park Comrs. made plans, 2-story, 40x80-ft. About $20,000. A. N. Rebori, 30 North Michigan Ave., Arch. Noted Mar. 23.

Ill., Decatur—Subway—Wabash Railway Co. made plans, rein.-con. About $100,000. A. O. Cunningham, St. Louis, Mo., Ch. Engr. Noted Feb. 17.

Ill., Ottawa—Track Elevation—City plans. G. L. Farnsworth, City Engr.

Iowa, Alden—City Hall and Fire Station—City plans, 2-story. About $15,000. G. F. Bigelow, Clk.

Iowa, Dubuque—Park System—City appropriated $100,000 for park system. E. C. Blake, City Engr.

Minn., Duluth—Dock—Duluth, Missabe & Northern Ry. plans. H. L. Dresser, Duluth, Ch. Engr.

Minn., Glenwood—Improving Fair Grounds—Pope County Fair Association plans. About $10,000. J. R. Serrin, interested.

Tex., Houston—Conveyors—City receiving bids Aug. 25 for 3 apron conveyors, Reno Type, at Municipal Wharf No. 4. E. B. Booney, City Secy.

Okla., Pawhuska—Park Improvements—City voted $35,000 bonds.

Okla., Tulsa—Pipe Line—Sinclair Oil and Refinery Corporation plans 8-in. pipe line from Oklahoma fields to Chicago, 800 mi., and 2 refineries, one at Chicago and other at some point on Mississippi River. About $10,000,000.

Colo., Denver—Park and Playgrounds—City plans, at 38th Ave., Lafayette and Marion St. About $5,000. H. F. Meryweather, City Engr.

Wash., Seattle—Dock, Ferry Slip and Public Market—King County Comrs. making plans, Lakeside Ave. and Howard St. on Lake Union. About $40,000. A. P. Denton, Seattle, County Engr.

Wash., Tacoma—Dock—City plans, foot of 15th St. About $25,000. W. C. Raleigh, City Engr.

Ore., Portland—Stadium—Franklin High School made plans. About $8,900.

Calif., Fresno—Swimming Pool and Bathhouse—Fresno Natatorium Co. plans. R. H. Bruner, J. D. Bell and associates, interested.

Calif., Longbeach—(Official)—Pier—City election probably in September to vote on $500,000 bonds, Pine and American Ave. A. de Ring, City Engr. Noted July 6.

N. S., Dartmouth—Wharves and Office Buildings—Campagnie Francais des Telegraphique, Montreal, Que., making plans. B. A. Johnson, Barrington St., Hallifax, Engr.

Bids In and Contracts Awarded

Mass., Boston—(West Roxbury)—Playground—Park and Recreation Dept. received low bid from W. F. Pitts, Brighton, $8,878.

Mass., Brookline—Bathhouse—City let contract, Tappan St., to E. A. CAHILL & CO., 116 Chestnut St. About $15,500. Noted June 29.

Mass., Chatham—Jetty—Harbor and Land Com. let contract, Bucks Creek, to W. S. RENDLE, East Boston, $8.67 per lin.ft.

Mass., Chicopee—Retaining Wall—Harbor and Land Com. rejected bids received Aug. 1, Connecticut River.

Mass., North Scituate—Seawall—Harbor and Land Com. let contract, Cedar Point, to D. F. CROWLEY, Milton, $6.70 per lin.ft.

Mass., Somerville—Milk Station—J. M. Hager, 27 Walter St., let contract to F. C. RAND, 35 Banks St. About $7,000.

Mass., Waverly—Recreation Building—City let contract to R. A. BOSSI, 12 Harrow St., Dorchester.

Conn., New London—Ferry Slip and Wharf—Special Com. on Municipal Wharf let contract to T. A. SCOTT CO., INC., New London, $33,900.

Conn., Waterbury—Retaining Wall, Grading, etc.—Bd. Education let contract, Washington School, to BARBARA & D'AURIO CO., 63 Bank St.

N. Y., Cooperstown—Monument and Enclosure—L. T. Turner Post No. 26, G. A. R., let contract to G. BROWN CO., 286 5th Ave., New York.

N. Y., New York—(Brooklyn)—Tunnels—Contracts let, connecting buildings at Mission Church, 59th St., to S. NIEWENHOUS BROS., 163rd St. and Park Ave., Manhattan.

N. Y., New York—(Manhattan)—(Official)—Station Finish—Pub. Ser. Comn. let contract Grand Central Station of Queensboro Subway to T. J. WATERS, 271 West 125th St., $22,649. Noted July 20.

N. Y., New York—(Manhattan)—Pier—Low bids received for extending Pier No. 47, Perry St., North River, from A. N. Spooner & Son, $12,500; E. J. Connor, $12,723; G. B. Spearin, $12,830.

N. Y., New York—(Manhattan)—(Official)—Subway—Pub. Ser. Comn. let contract part of Route No. 61, Broadway-Fourth Ave. Rapid Transit R.R. to P. McGOVERN CO., 1 Madison Ave., $4,194,797. Noted July 20.

Miscellaneous (Continued)

N. Y., New York—(Manhattan)—(Official)—Terminal Improvements—Pub. Ser. Comn. let contract construction work at Manhattan Terminal of Brooklyn Bridge as preliminary to Nassau St. Subway to DEGNON CONTRACTING CO., 30 East 42nd St., $9,600.

N. J., Atlantic City—(Official)—Cast Iron Pipe and Castings—City let contract to UNITED STATES CAST IRON PIPE AND FOUNDRY CO., 1421 Chestnut St., Philadelphia, $58,756. Noted July 13.

Penn., Erie—Flood Protection—City let contract channel for Mill Creek to L. V. METZ, Erie, $6,500. Noted July 20.

Del., Wilmington—Swimming Pool and Pumping Station—F. D. Lackey, 9th and Market St., let contract to W. D. HADDOCK & CO., 804 Orange St., Wilmington. Noted July 27.

Ga., Atlanta—Grandstand—Southeastern Fair Association let contract to PITTMAN CONSTRUCTION CO., about $8,000.

Fla., Sarasota—Pier—City let contract rein.-con. recreation pier to LUTEN BRIDGE CO., York, Penn., $17,000. Noted June 29.

Ala., Mobile—Apron—City let contract apron in front of wharf to JEFFMUTHS CONSTRUCTION CO.

Ohio, Athens—Tunnel—Contract tunnel on President St. let to DeMOLET & CORNWELL, Athens.

Ohio, Cincinnati—Elimination Grade Crossing—Chesapeake & Ohio Railway Co. of Indiana let contract to W. F. NICKERSON, 6324 Lower River Rd. Noted June 8.

Ohio, Cleveland—Elimination Grade Crossing—City let contract, Union Ave., to BATES & ROGERS, Engineers Bldg., $29,235. Noted June 8.

Ohio, Columbus—Elimination Grade Crossing—Cleveland, Cincinnati, Chicago & St. Louis Ry. let contract, 2nd St., to WALSH CONSTRUCTION CO. C. A. Paquette, Cincinnati, Ch. Engr.

Ohio, Columbus—Fish Hatcheries—State Bd. let contracts to M. E. MURPHY, Columbus, $9,481, at St. Mary's Lake; W. D. WINCHELL, Columbus, $8,441, at Newton and Buckeye Lake.

Ohio, Columbus—Grade Crossings—Cleveland, Cincinnati, Chicago & St. Louis Ry. let contract to WALSH CONSTRUCTION CO., Davenport, Iowa. About $300,000. Noted Apr. 20.

Ohio, St. Marys—Fish Hatchery—State Bd. of Agriculture received low bids from M. E. Murphy Co., 407 West State St., and W. D. Winchell, 331 Seibert St., Columbus, $9,046.

Ind., Culver—Natatorium—Culver Military Academy let contract 1-story, 95x183-ft., to J. T. BARNES. About $45,000. Noted July 27.

Ind., Gary—Breakwater and Ore Dock—National Tube Co. let contract to ILLINOIS IMPROVEMENT AND BALLAST CO.

Ind., Sullivan—Concrete Levee Facing, etc.—Contract improving Gill Township Levee let to M. R. POLK & CO., Oaktown, $30,770. Noted June 15.

Mich., Bay City—Channel, Pier, Etc.—City let contract to STANDARD ENGINEERING CO., Toledo, Ohio.

Mich., Detroit—Skating Rink—Peoples Ice Co. let contract, Woodward and Antoinette St., to LEWIS HALL IRON WORKS.

Ill., Assumption—Coal Chute—Illinois Central Railroad Co. let contract to OGLE CONSTRUCTION CO., 322 South Michigan Ave., Chicago. About $10,000.

Ill., Chicago—Bathhouse—City let contract, 2-story, Polk and Paulina St., to W. G. CARTER CO., 133 West Washington St. About $35,000.

Ill., Chicago—Engine House and Hand Ball Court—City let contract to AUSTIN J. LYNCH CO., 111 West Monroe St. About $35,000.

Ill., Danville—Train Shed—Chicago & Eastern Illinois R.R. let contract to M. J. HOFFMAN CONSTRUCTION CO., $25,000. L. C. Hartley, 66th and Union Ave., Chicago, Ch. Engr.

Ill., Kansas—Retaining Wall—City let contract to ZIMMERLY BRIDGE CO., Austin and Springfield Ave., Paris.

Ill., Peoria—Golf Shelter—Park Bd. let contract, Madison Park, to W. F. BENSON. About $14,778.

Kan., Halstead—Dam—City rejected bids received for dam on Little River in park. B. Wells, Wichita, Engr. Noted May 25.

Neb., Lincoln—Formal Entrance to Park—City let contract to R. O. STAKE, 346 North 28th St. About $5,000.

Neb., Omaha—Swimming Pool — City let contract to JAMES JENSEN, 2420 Wirt St.

Mo., Kansas City—Retaining Wall—Kansas City Railways Co. let contract rein.-con. retaining wall at Brush Creek and Troost Ave. to FOX-REDPATH CONSTRUCTION CO., 1012 New York Life Bldg., $18,000.

Ark., Little Rock—Levee—Fourche Levee District let contract rebuilding portion of levee to F. DONAHUE, Little Rock. About $50,000. Noted Mar. 30.

Ark., West Point—Levee—Little Red River Levee Dist. No. 1 let contract 220,000 cu.yd. to E. J. HAHN, Little Rock, 22½c. cu.yd.

Tex., El Paso—Comfort Station—City let contract, San Jacinto Plaza, to R. E. McKEE, $6,993. Noted June 15.

Tex., Houston—Shelter House—City let contract, Woodland Park, to NESS & TELLEPSON, Houston, $65,000.

Wash., Seattle—Fill—Contract fill at Denny & Hoyt's addition let to STANDARD AMERICAN DREDGING CO., $12,560.

Calif., Manhattan—Pavilion and Pier—City received lowest bid July 19 from G. W. Harnou, $21,443. Train & Williams, 226 Exchange Bldg., Los Angeles, Arch. Noted Apr. 6.

Calif., Ocean Beach—Esplanade—City let contract, 2nd section, to J. D. HANNAH, $23,149.

Calif., Venice—Bulkhead—City let contract bulkhead along shore from Vista to Salt Air St. to BRAUN, BRYANT & AUSTIN, Venice. $125,000. Noted Aug. 3.

Ont. York Mills — Mausoleum — International Mausoleum Co., 20 King St., E., Toronto, let contract to D. W. MITCHELL CONSTRUCTION CO., Niagara Falls, N. Y., about $95,000.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Maine, Skowhegan—Reformitory—State receiving bids Aug. 21. C. H. Smith, Chn. Trust. E. F. Bassett, 95 Exchange St., Portland, Arch. Noted July 13.

Vt., Brattleboro—Office—H. G. Barber made plans for rebuilding, 4-story at Main and Flat St.

Vt., Proctor—Office—Vermont Marble Co. plans, 3-story, 60x100-ft. R. C. Sturgis, 140 Boylston St., Arch.

Mass., Chelsea—School—City making plans for Carter School. About $175,000. S. S. Isenberg, Chelsea, Arch.

Mass., Fall River—Steiger & Cox plans 2- and 4-story, 90x200-ft. building. G. P. B. Alderman & Bros., Holyoke, Arch.

Mass., Lawrence—School—Holy Rosary Church plans 3-story, 84x107-ft., brick and stone. About $125,000. E. T. P. Graham, 20 Beacon St., Boston, Arch.

Mass., New Bedford—School—St. Anthony's Church making plans, 3-story, 80x180-ft. About $150,000. L. E. Destremps, New Bedford Theater Bldg., Arch.

Mass., Northampton—City Hall—City plans, 3-story, 100x200-ft. brick and stone. About $300,000.

Conn., New Haven—Hotel—A. L. Notkins & Son, 23 Church St., making plans. C. F. Townsend, 129 Church St., Arch.

N. Y., Albany—Remodeling City Hall—City making plans. C. G. Ogden, 61 State St., Arch. F. R. Lanagan, City Engr.

N. Y., Buffalo—School—Bd. Education plans additions. About $1,250,000.

N. Y., Cohoes—High School—City votes Sept. 20 on $200,000 bonds. J. S. Calkins, Mayor. Noted July 20.

N. Y., Endicott—Church—Methodist Society plans, about $60,000. G. N. Underwood, 119 Madison Ave., Pastor.

N. Y., Johnson City—Church—Methodist Episcopal Congregation plans. About $100,000.

N. Y., New York—(Manhattan)—Club House—University Club made plans, 9-story, 54th and 55th St., about $100,000. T. Thatcher, 1 West 54th St., Pres. McKim, Mead & White, 101 Park Ave., Arch.

N. Y., New York—(Manhattan)—Hotel—Dunnock Realty Co., 119 West 40th St., received bids soon, 14-story, about $400,000. A. Roth, 119 West 49th St., Arch.

N. Y., New York—(Manhattan)—Hotel—Directors Realty Co. made plans, 206-16 West 70th St., 14-story, about $800,000. R. Jacobs, 30 East 42d St., Pres.

N. Y., New York—(Manhattan)—Station—Pennsylvania R.R. made plans for alterations, about $40,000. A. C. Shand, Philadelphia, Ch. Engr. Gibbs & Hill, 7th Ave. and 32d St., Consult. Engr.

N. Y., New York—(Manhattan)—Store, Loft and Office Building—E. L. and H. B. Burrill, 6 West 48th St., made plans, 16-story, 6-8 West 48th St., about $250,000. R. T. Lyons, Inc., 52 Vanderbilt Ave., Arch. and Supt.

N. Y., New York—(Manhattan)—Store and Office Building—Syndicate Mgrs. Racquet and Tennis Club made plans, 16-story, 43d and 44th St., about $1,100,000. C. H. Sabin, 71 Broadway, Mgr. Starrett & Van Vleck, 8 West 40th St., Arch.

N. Y., New York—(Manhattan)—Store and Office Building—F. V. Burton, Newburgh, and J. H. Burton, Cedarhurst, made plans for alterations, 7-11 West 39th St., about $300,000. Starrett & Van Vleck, 8 West 40th St., Arch.

N. Y., New York—(Manhattan)—Store and Office Building—The 110 William St. Corporation made plans, 20-story, about $981,000. R. Anderson, 95 William St., Pres. F. H. Quimby, [illegible] Nassau St., Arch.

N. Y., New York—(Manhattan)—Store and Office Building—G. L. Rives, 69 East 79th St., and J. A. Burden, Troy, made plans, 18-story, about $400,000. Trowbridge & Livingston, 527 5th Ave., Arch. and Supt.

N. Y., Onondago Valley—School—City plans. About $150,000. Address School Bd., Syracuse.

N. Y., Poughkeepsie—School—Bd. Education making plans, Warring School. E. C. Smith, Arch.

N. Y., Rochester—Synagogue—Jewish Synagogue made plans, 1-story, 113x150-ft. About $60,000. J. F. Warner, Granite Bldg., Arch. Noted Mar. 16.

N. Y., Syracuse—School—James A. Randell, 209 Midland Ave., making plans. About $60,000; also in 19th Ward, at Broad St. and Lancaster Ave. About $88,000.

N. J., Asbury Park—Hospital — Plans being made. About $100,000. Dr. W. W. Beveridge, interested.

N. J., Bayonne—Schools—Bd. Education making plans for additions to high school, Lincoln School and School No. 3. About $750,000.

N. J., Collingswood—Library—City made plans. C. W. Bolton & Son, Arch.

N. J., Dover—High School—Bd. Education receiving bids Aug. 16. About $100,000. J. T. Simpson, 620 Essex Bldg., Newark, Arch. Noted July 27.

N. J., Englewood—City Hall—Council plans. T. Collins, City Engr.

N. J., Garwood—School—Bd. Education plans addition, Walnut St.

N. J., Jersey City—Theater—O. Wetter made plans, 2-story, 100x100-ft., $40,000. W. H. Bogart, 298 Jackson Ave., Arch.

N. J., Newark—A. Lichhtman, care J. Lichtman & Son, Frelinghuysen Ave., plans 6-story loft building at 32 Mechanic St.

N. J., Newark—School—Bd. Education receiving bids Aug. 30 for addition to Charlton St. School. About $153,000. A. D. Argue, Secy.

N. J., Perth Amboy—Perth Amboy Savings Institution made plans for 3-story, 50x100-ft. brick and limestone bank, store and office building at Smith and Maple St. About $100,000. Holmer & Winslow, 103 Park Ave., New York, Arch. Noted June 1.

N. J., Perth Amboy—Theater, Store and Office—Smith Street Realty Corporation making plans, 2-story. About $60,000. E. C. Horn & Sons, 1476 Broadway, New York, Arch.

N. J., Union—Church—St. Johns German Luthern Congregation plans. About $50,000. Jacob Schuster, Ch. Bldg. Com.

N. J., Union—School—Bd. Education plans, on Hudson Ave. About $100,000.

Penn., Altoona—Hospital—Mercy Hospital soon receiving bids for addition at 8th Ave. and 26th St. About $50,000. Noted Mar. 2.

Penn., Chester—Theater—J. F. Zimmerman, Philadelphia, making plans, rein.-con. on Edgmont Ave. About $200,000. Hoffman Co., Arch.

Penn., Coudersport—High School—Bd. Education plans.

Penn., Dunmore—High school and Gymnasium—City plans addition, 16 rooms. About $70,000.

Penn., Erdenheim—Bd. Trustees of Carson College for Girls made plans for 7 buildings. About $250,000. A. Kelsey, Arch.

Penn., Hazleton—Freight Station—Pennsylvania R.R. plans to rebuild. A. C. Shand, Philadelphia, Ch. Engr.

Penn., Kutztown—High School—Bd. Education revising plans, 2-story, 75x100-ft. E. S. Schill, 31 North 6th St., Reading, Arch. Noted July 20.

Penn., Lebanon—Club House—B. P. O. E. plans. About $40,000. A. A. Richter, 31 North 6th St., Reading, Arch.

Penn., Lewistown—School—Bd. Education sold $100,000 bonds.

Penn., Narberth—School—City voted $58,000 bonds. Address Clk. School Bd.

Penn., Norristown—Y. W. C. A. plans 3-story building. About $200,000. J. H. Egan, De Kalb St., Secy.

Penn., Philipsburg—Theater, Store and Office—C. H. Rowland, South Center St., making plans, 3-story, 66x211-ft. About $50,000. J. Millard, Altoon, Arch. Noted Apr. 13.

Penn., Philadelphia—School — Bd. Education plans 2-story addition to Northeast Manual Training School. J. Horace Cook, Arch.

Penn., Ridley Park—High School—Bd. Education receiving bids Aug. 15. About $80,000. P. A. Davis, 1713 Sansom St., Philadelphia, Arch. Noted July 27.

Del., Laurel—Bank—Peoples National Bank making plans, 1-story, 33x50-ft. About $75,000. E. C. May, DuPont Bldg., Wilmington, Arch.

Buildings (Continued)

Del., Wilmington—Bank and Office—Delaware Trust Co. making plans, 73x210-ft. About $800,000. Hoffman & Co., Finance Bldg., Philadelphia, Arch. Noted June 8.

Md., Baltimore—Hotel—Southern Hotel Co. soon receives bids, 14-story, Light and German St., about $750,000. A. J. Fink, Calvert Bldg., Secy.-Treas. O. G. Simonson, Maryland Casuality Tower, Arch.

Md., Baltimore—Hotel—Baltimore Hotel Co. making plans, 14-story, Baltimore and Howard St. J. Epstein, Pres.

Md., Baltimore—Lodge and Store Building—Knights of Pythias plan, 5-story, about $175,000. R. L. Lee, 232 St. Paul St., Arch.

Md., Baltimore—School—City plans addition, 3-story, School No. 47, Eastern Ave. and Linwood St., about $100,000. A. C. Leach, 323 North Charles St., Arch.

Md., Catonsville — School — Salem Luthern Church making plans. W. M. Gieske, Gunther Bldg., Baltimore, Arch.

Md., Cumberland—Hotel—D. Willard making preliminary plans, 1-story. About $100,000. M. A. Long, care of Baltimore & Ohio R.R., Arch.

Va., Charlottesville — Club House — University of Virginia plans, 2-story. About $40,000. Ferguson, Calrow & Wrenn, Virginia National Bank Bldg., Norfolk, Arch.

Va., Richmond—Store—J. B. Mosby & Co. making plans, 6-story, 56x150-ft. at Broad and Jefferson St. About $150,000. Carneal & Johnston. Richmond, Arch.

W. Va., Huntington—Office—J. S. Farr making plans, 14-story. About $100,000. Meanor & Sweeney, Arch.

W. Va., Huntington—Store and Office—H Ghiz Logan plans, 6-story, 52x65-ft. About $45,000. W. B. Smith, R. & P. Bldg., Arch.

Fla., Titusville—School—Brevard County sold $50,000 bonds. Address County Clk., Titusville.

Ala., Athens—(Official)—Courthouse—Limestone County receiving bids Sept. 7. About $90,000. G. Molain, Chn. Comrs. Court. Noted July 20.

Miss., Charleston—School—Trustees Enid Consolidated High School receiving bids Aug. 15. A. E. Mitchell, Secy.

La., New Orleans—Hotel—Esplanade Hotel Co. plans, 7-story on Esplanade Ave. About $500,000. Address J. L. Onorato, 820 Common St.

Tenn. Nashville—Office—J. O. Leake, Vice-Pres., Security Title Co., and associates soon receiving bids, 5-story, rein.-con. Marr & Holman, Stahlman Bldg., Arch.

Tenn., Nashville—Hospital—Galloway Memorial Hospital rejected bids to complete hospital. Plans will be revised and new bids asked, about $300,000. S. Hannaford & Sons, Cincinnati, Arch. Noted May 25.

Tenn., Nashville—Club House—Memphis Catholic Club to build, about $75,000. E. Longinotti is Secy.

Ohio, Akron—(Official)—Bank and Office—Commercial Savings Bank Co. receiving bids Aug. 25. About $250,000. F. Wagner & Mitchell, 495 Permanent Bldg., Arch. Noted July 20.

Ohio, Amlin—School—Bd. Education of Norwich Township receiving bids Aug. 18. J. W. Reason, Pres. Bd.

Ohio, Ashland—Hotel—F. E. Myers, Ashland, interested. About $125,000.

Ohio, Cincinnati—Library—Lloyd Library and Museum made plans, 4-story, at Court and Plum St. Tietig & Lee, Arch.

Ohio, Circleville—High School—Bd. Education receiving bids Aug. 17. About $130,000. F. L. Packard, 1212 Hayden Bldg., Columbus, Arch. Noted July 20.

Ohio, Dayton—Dayton Pythian Castle Co. plans addition to building. About $150,000.

Ohio, Defiance—Passenger Station—Baltimore & Ohio Railroad Co. made plans, 2-story. F. L. Stuart, Baltimore, Md., Ch. Engr.

Ohio, Eaton—Courthouse—Preble County receiving bids Aug. 26. G. W. Rehfuss, Clk. Preble County Comrs. Noted July 6.

Ohio, Hilliards—High and Grade School—Norwich Township receiving bids Aug. 18, 2-story. About $60,000. F. L. Packard, 1212 Hayden Bldg., Columbus, Arch. Noted July 13.

Ohio, Lakewood—Church—Lakewood Presbyterian Crurch made plans, Detroit and Marlowe St. H. W. Maurer, Schofield Bldg., Cleveland, Arch. About $50,000. Noted Mar. 23.

Ohio, Liverpool—School—Bd. Education sold $95,000 bonds.

Ohio, Marion—Hotel—Thies & Thies, Daves Bldg., Dayton, making plans, 224 West Center St. About $80,000. Noted July 20.

Ohio, Newark—Church—Fifth Avenue Baptist Church plans, 1-story. About $65,000. E. E. Pruitt, Hartman Bldg., Columbus, Arch.

Ohio, Rocky River—Motion Picture Studio—Midland Film Co., 453 Leader-News Bldg., Cleveland, plans. About $100,000.

Ohio, Struthers—(Official)—City receiving bids Aug 16 for building. J. Richards, Clk.

Ohio, Warrensville—Sanitarium—City Council plans $400,000 bond issue for addition.

Ind., Decker—School—City soon votes on $40,000 bonds.

Ind., Ft. Wayne—Assembly Hall—City votes in November on $225,000 bonds.

Ind., Gary—Freight Buildings—Pennsylvania R.R. made plans. About $50,000.

Ind., Stewartsville—Lodge—Independent Order of Odd Fellows made plans, 2 story.

Ind., Terre Haute—Church—Lowe & Bollenbaker, 14 East Jackson Blvd., making plans for Centenary Methodist Congregation. About $80,000. Noted June 15.

Mich., Battle Creek—Nurses' Home—Battle Creek Sanitarium plans on North Washington Ave. About $100,000.

Mich., Coldwater—Armory—Michigan National Guard plans, 1- and 2-story, 63x146-ft. About $25,000. R. A. LeRoy and E. S. Patterson, Kalamazoo, Arch.

Mich., Detroit—Hotel—W. H. Pocock, 515 Hammond Bldg., plans, 6-story brick and steel. About $75,000.

Mich., Escanaba—School—Citizens voted $45,000 bonds for addition.

Mich., Lake Linden—School—City voted $50,000 bonds.

Mich., Lansing—High School—City voted $80,000 bonds to improve.

Mich., Ludington—School—City election soon to vote on $85,000 bonds. Noted June 15.

Ill., East St. Louis—Coliseum—Coliseum Co. plans to remodel building. About $100,000. A. C. Einstein, Pres.

Ill., Hinsdale—Church—Hinsdale Congregational Church receiving bids Aug. 12, 2-story, 110x126-ft. About $75,000. Tallmadge & Watson, 189 West Madison St., Chicago, Arch.

Ill., Mattoon—City Hall—City plans. About $40,000. F. E. Bell, Mayor.

Ill., Rockford—Club House—Rockford Womans Club making plans. About $60,000. Tallmadge & Watson, 189 West Madison St., Chicago, Arch.

Wis., Appleton—Dormitory—Lawrence College plans. About $100,000.

Wis., Ashland—Clubhouse—Knights of Columbus plans at Ellis Ave. and 2nd St. About $50,000.

Wis., Hixton—High School—School Bd. receiving bids Aug. 15. E. A. Petzke, Secy. O. H. Round, 2012 Oppenheim Bldg., St. Paul, Arch.

Wis., Kaukauna—Training School—County Bd. Education receiving bids Aug. 16, 2-story, 56x92-ft., brick. W. E. Reynolds, Green Bay, Arch. R. N. Radsch, Clk. Bd.

Wis., La Crosse—Physical Training Building—State Bd. of Regents, Madison, making plans, 3-story, 30x68-ft. Parkinson & Dockendorf, Linker Bldg., Arch. Noted Jan. 13.

Wis., La Crosse—(Official)—Hospital—Lutheran Hospital Association receiving bids about Aug. 22. About $50,000. Bell & Bently, Secy. Bank Bldg., Minneapolis, Arch. Noted June 1.

Wis., Pewaukee—School—City plans. About $42,000.

Wis., Wauwatosa—School—St. Bernards Congregation making plans, 2-story, 50x74-ft., brick and stone. A. C. Eschweiler, Goldsmith Bldg., Milwaukee, Arch.

Wis., Waukesha—School—St. Josephs Congregation receiving bids Aug. 15, 2-story, 65x90-ft., stone. C. Barkhausen, Iron Blk., Milwaukee, Arch.

Iowa, Cedar Rapids—Church—Baptist Congregation making plans. About $50,000. W. C. Jones, 30 North La Salle St., Chicago, Arch. Noted Apr. 6.

Iowa, Cumberland—School—Bd. Education Independent School Dist. receiving bids Aug. 14. C. P. Shearer, Secy. Reimer & Herlin, Marshalltown, Arch.

Iowa, Ft. Dodge—Schools—J. L. Parte, Secy., Independent School Dist., receiving bids Aug. 24. About $65,000. Noted June 27.

Iowa, Iowa City—Ward Schools—City voted $250,000 bonds. A. J. Hertz, Clk. Bd. Education. Noted July 13.

Iowa, Irwin—School—Bd. Education soon receives bids. About $40,000. W. F. Hermandt, 437 Keeline Bldg., Omaha, Neb., Arch. Noted June 22.

Iowa, Jesup—School—City voted $85,000 bonds. M. Young Member Bd. of Consolidated School Dist.

Iowa, Ottumwa—High School—City election soon to vote on $125,000 bonds for addition. J. A. Wagner, Secy. Bd. Education. Noted July 27.

Iowa, Sergeant Bluff—School—City election soon to vote on $70,000 bonds.

Minn., Eveleth—High School—Bd. Education receiving bids Aug. 30, 2-story, 170x200-ft. About $210,000. W. E. Bray, Fidelity Bldg., Duluth, Arch. Noted Feb. 24.

Minn., Minneapolis—W. L. Harris Realty Co. receiving bids Aug. 15 for 2-story, 100x150-ft. building. Addition of 10-story will be built in future. Entire cost, $500,000. J. V. Koester, Arch.

Minn., Virginia — Schools — Citizens defeated $566,000 bonds. Noted July 13.

Iowa, Monticello—Hospital—John McDonald Estate making plans, 3-story. About $50,000. F. E. Wetherell, Arch.

Minn., St. Paul—Hotel—M. P. Ryan, 812 New York Life Bldg., plans addition to St. Michael Hotel, 510 St. Peter St. About $150,000.

Minn., St. Paul—Club House and Store—St. Paul Athletic Club plans, 12-story, 100x140-ft. About $650,000. A. H. Stem, 601 Endicott Bldg., Arch.

Minn., Winona—Hospital — Winona General Hospital Association plans, 3-story. About $50,000.

Kan., Abilene—Hotel—J. T. Brown making preliminary plans, 3-story. About $100,000.

Kan., Hoxie—Courthouse—Sheridan County votes in November on bonds.

Kan., Iola—High School—Bd. Education receiving bids Aug. 18, 3-story, 90x106-ft., brick, stone and rein.-con. About $85,000. T. W. Williamson & Co, 418 Central National Bank Bldg., Topeka, Arch. W. A. Wheeler, Secy., Bd. Education. Noted July 20.

Kan., Leavenworth—City Hall and Auditorium—City votes Sept. 10 on $150,000 bonds. F. Metchan, Clk. H. A. Perkins, City Engr.

Kan., McPherson—City Hall—City plans, about $40,000.

Kan., Newton—School—City voted $60,000 bonds. Greenebaum & Hardy, 216 Scarritt Bldg., Kansas City, Mo., Arch. Noted July 6.

Kan., Parsons—Insane Asylum—State Bd. of Control, State House, Topeka, receiving bids Aug. 28, 2-story, 50x197-ft., brick. About $50,000. J. W. Howe, Secy. C. H. Chandler, State Arch., Topeka.

Kan., Pratt—Hospital—Pratt County votes Nov. 7 on $50,000 bonds. Noted June 1.

Kan., Wichita—Schools—City voted $100,000 bonds. J. Leland, Secy. School Bd. Noted Feb. 24.

Neb., Center—High and Grade School—Knox County School Dist. No. 1 receiving bids Aug. 18. J. Forsyth, Secy. Grabe & Helleberg, Columbus, Arch.

Neb., Fremont — Courthouse — Dodge County making plans, 3-story, 84x120-ft., brick, stone and rein-con. Bids about Sept. 1. About $140,000. J. O'Connor, County Clk. A. H. Dyer Co., Arch. Noted July 6.

Neb., Havelock—High School—School Bd. receiving bids Aug. 31. About $50,000. W. F. Gernandt, 437 Keeline Bldg., Omaha, Engr. F. B. Young, Secy.

Neb., Niobrara—(High and Grade School)—Bd. Education receiving bids Aug. 18. Grave & Helleberg, Columbus, Arch. J. Forsyth, Secy.

Neb., Omaha—Theater—World Realty Co., 1410 Farnam St., plans, $55,000.

Mont., Butte—Theater and Office Building—Silver Bow Amusement Co. soon lets contract, 4-story, 94x100-ft. brick, concrete and terra cotta. About $100,000. H. Ryan, Liberty Theater Bldg., Seattle, Wash.

Mont., Great Falls—School—City plans. About $100,000.

Neb., Tekamah—Court House—Burt County receiving bids Aug. 15. F. O. Lundstrom, Tekamah, Clk.

S. D., Clear Lake—Courthouse— Deuel County making plans. Buechner & Orth, 500 Shubert Bldg., St. Paul, Arch. J. M. Wold, Clear Lake, County Audr. Noted June 22.

S. D., Winner—High and Grade School—Bd. Education receiving bids Aug. 19. L. Mengel, Clk., Bd. Education of Consolidated Dist. No. 20. Grabe & Helleberg, Columbus, Neb., Arch. Noted May 25.

Mo., Kansas City—Auto Training School—Swenney Automobile School making plans, 10-story, 110x116-ft. Keene & Simpson, 400 Reliance Bldg., Arch.

Mo., Leeds—Kansas City Bd. of Pub. Welfare making plans women's reformatory. About $50,000. Root & Siemons, 1202 Scarritt Bldg., Kansas City, Arch.

Mo., St. Joseph—Hotel—Buchanan Hotel Co. making plans for addition, Rocidoux, 5th and Francis St. About $75,000. Walter Boschen, Tootle-Lemon Bank Bldg., Arch.

Mo., St. Louis—Hotel—Kennerly & Stiegemeyer, Arch., 505 Benoist Bldg., making plans, 16-story, 74x109-ft., to be leased by Straus Co., La Salle Hotel, Chicago. About $250,000.

Mo., St. Louis—City appropriated $250,000 for buildings at Ft. Bellefontaine Industrial School.

Ark., Little Rock—High School—School Bd. plans. About $300,000.

Ark., Texarkana—Hotel—Young Men's Business League, 306 Vine St., interested, 7- or 8-story, about $250,000. G. J. Gray, Secy.

Tex., Austin—Bd. of Trustees for Deaf and Dumb Institute approved plans for building. About $64,000.

Tex., Beaumont—School—City voted $300,000 bonds. J. G. Sutton, City Clk. Noted June 29.

Buildings (Continued)

Tex., Dallas—Bank—City National Bank made plans. About $250,000. Hubbell & Greene, Arch.

Tex., Denison—School—City voted $60,000 bonds. Address Clk. School Bd. Noted June 22.

Tex., Ft. Worth—Schools—City voted $225,000 bonds. Noted July 6.

Tex., Paris—Crook-Record Building Co. to build 3-story store building, $66,424.

Tex., Paris—Bank—First National Bank made plans, 4-story. About $81,000.

Tex., Paris—School—City voted $60,000 bonds. Sanguinet & Staats, Ft. Worth, Arch.

Tex., Sherman—School—City voted $100,000 bonds. Noted July 6.

Tex., Sulphur Springs—Church—Methodist Congregation making plans. About $40,000.

Tex., Texarkana—Hotel—Business Men's League plans. About $200,000.

Tex., Tyler—Jail and Courthouse—Smith County plans to remodel. About $46,000.

Tex., San Antonio—Temple—H. A. Reuter, Arch., making plans. About $125,000. Address J. E. Webb Chn. Labor Unions Com., in charge.

Tex., Wichita Falls—High School—School Bd. rejected bids addition. Plans to be revised and new bids received, about $65,000. Noted May 11.

Okla., Ardmore—Hotel—Ardmore Hotel Co. plans. About $200,000. C. A. Weise, Pres.

Okla., Bartlesville — Auditorium — Commercial Club plans. About $50,000.

Okla., Okmulgee—Courthouse—Okmulgee County receiving bids Aug. 28, 4-story, 100x108-ft. brick, stone and concrete. About $140,000. C. E. Hair & Co., 417 Terminal Bldg., Oklahoma City, Arch.

Okla., Tulsa—City Hall—City to issue $125,000 bonds. E. C. Hughes, City Engr.

Idaho, Boise—Hotel and Sanitarium—J. K. White plans. About $75,000.

Idaho, Gooding — Administration Building — Gooding College soon receives bids. About $80,000. C. H. White, Trustee. Noted July 27.

Idaho, Pocatello—Hospital—Catholic Hospital making plans, 2-story. About $50,000. Headlund & Kent, Salt Lake City, Arch.

Idaho, Rexburg—Hotel—Rexburg Hotel Co. plans, College Ave., about $50,000.

Utah, Salt Lake City—School—State School Comn. approved plans for 17 schools. About $450,000.

Calif., Martinez—School—City voted $51,000 bonds. Noted July 6.

Calif., Modesto—High School—City votes Aug. 15 on $135,000 bonds. Noted July 20.

Calif., Riverside—Store and Lodge Building—Odd Fellows making plans, 3-story. About $50,000. W. W. Phelps, Chn. Bldg. Com.

Calif., Sacramento—Temple—Local Lodge of Masons plan, 5-story, 100x160-ft. About $300,000. G. Stevens, Pres. Masonic Temple Bldg. Assoc.

Calif., Santa Barbara—School—City making plans, 3-story, for Prince Hopkins School. About $50,000. Mayberry & Parker, 472 Pacific Electric Bldg., Los Angeles, Engr.

Calif., Visalia—Jail—Tulare County made plans. About $40,000. E. Mathewson, Fresno, Arch.

Ont., Windsor—T. L. Reeves, University Realty Co., making plans 24-story building.

Man., Dauphin—Dauphin Telephone Co. making plans for brick and stone building. About $50,000. W. Fingland, 255 Dromore Ave., Winnipeg, Arch.

Man., The Pas—T. H. Johnson, Minister Pub. Wks., Winnipeg, receiving bids Aug. 16 for buildings. G. N. Taylor, The Pas, Arch.

Bids In and Contracts Awarded

N. H., Peterboro—Church—All Saints Episcopal Church will build by day labor. About $75,000.

Vt., Brattleboro—F. W. Woolworth Co., 59 Temple Pl., Boston, Mass., let contract 4-story building to W. CUSHMAN, Guilford St.

Vt., Burlington—School—Diocese of Vermont let contract, 124x154-ft., to B. F. SHANLEY, 223 Maple St. About $100,000.

Mass., Danvers — Contract building at insane asylum let to J. P. KEATING, Westboro. About $40,000.

Mass., Holyoke—A. Beauregard, 136 Dwight St., let contract 5-story building to CHOINERE & BEAUREGARD.

Mass., North Andover—High School—City let contract to E. A. PEABODY & SON, Lawrence, about $70,000. Noted July 20.

Mass., Walpole — (Official)—School—Norfolk County Agricultural School let contract, 3-story, to DILLON BROS., Milford, $48,850. Noted June 15.

R. I., Bristol—Grammar School—W. Williams, 86 Weybossett St., Providence, $53,000 low bidder, 2-story, 72x129-ft. G. C. Minard, Chn. Bldg. Com. Noted May 18.

Conn., Hartford—Theater—Contract let to P. LEONE, Hartford, $250,000.

N. Y., Cambridge—Hospital—Washington County let contract, 3-story, 40x125-ft., to W. F. CRAWFORD, 7 East 42nd St. About $40,000. Noted Mar. 2.

N. Y., Mt. Kisco—School—Bd. Education let contract addition to G. T. KELLY, 22 John St., Yonkers, $40,000. Noted July 13.

N. Y., Schenectady—Temple—Associated Lodges F. & A. M. received low bids from Brown & Lowe, 111 Foster Ave., and J. F. Grove Construction Co., 118 Hudson Ave., Albany. About $100,000. R. W. Thompson, 301 Germania Ave., Chn. Bldg. Com. Noted Feb. 3.

N. J., Jersey City—Hospital—City Comrs. received low bids July 25 for hospital from Emerson Building Co., 248,900, addition to nurses home, W. H. & F. W. Cane, Inc., $52,525. Noted July 13.

N. J., Montclair—(Official)—School—Bd. Education rejected bids received July 25 for additions and alteration to Watching School. Noted July 13.

N. J., Montclair—School—Bd. Education rejected bids for additions and alterations to Nishuane School. Starrett & Van Vleck, 8 West 4th St., New York, Arch. Noted July 13.

Penn., Collegeville—School—City let contract, 2-story addition, to ELMER S. POLEY, Trappe.

Penn., Connellsville—High School—City let contract to LAWRENCE & CRITCHFIELD, Somerset, $137,823. Noted June 1.

Penn., Philadelphia—Church—Orthodox Street Methodist Episcopal Church let contract, 2-story, Orthodox and Torresdale St., to G. GRAHAM BOND, Philadelphia. About $40,000.

Penn., South Mountain — Ward Buildings — Asylum for Chronic Insane let contract to METZGER & FISHER, Denckla Bldg., Philadelphia. Noted July 20.

Md., Chestertown—Bd. of Vistors and Governors, Washington College, let contract for brick administration building to HENRY S. RIPPLE, Baltimore, and boiler house to CLARENCE E. STUBBS, Baltimore. About $53,990. James W. Cain, Pres. College. Noted Jan. 27.

Va., Norfolk—Synagogue—Ohef Sholom Temple received low bid from Baker & Brinkley, Norfolk. About $81,498. Noted June 15.

Va., Staunton—(Official)—School—School Bd. let contract to L. W. PUFFENBERGER, Staunton, $41,000. Noted July 20.

Fla., Cocoa—School — Bd. Pub. Education let contract to FLORIDA SCHUB CONCRETE CO., Jacksonville, $40,695. Noted July 6.

Fla., Miami—Store—S. H. Kress & Co., 30 Broadway, New York, let contract, 3-story, to LeBARR & CO., Birmingham, Ala. About $50,000.

Ohio, Akron—Bank, Store and Office—C. J. Snyder Estate let contract, 7-story, 63x70-ft., to CARMICHAEL CONSTRUCTION CO., Akron. About $60,000. Noted Apr. 20.

Ohio, Bryan—(Official)—School—Bd. Education let contract, East Butler and South Cherry St., to WILLINY BROS., Bellevue, $97,800. Noted July 27.

Ohio, Mansfield—(Official)—Hospital—Bd. Trustees, Emergency Hospital Association, let contract to SIMON SMALL & SONS CO., Mansfield, $75,000. Noted July 27.

Ohio, Toledo—Grade School—Bd. Education received low bids Sherman School from A. Bentley & Sons Co., H. J. Spieker Co. and Wallsbock & Kuhlman. About $200,000. E. M. Goe, Bus Mgr., Bd. Education Bldg. Noted June 29.

Ohio, Van Buren—School—Allen Township let contract, 2-story, 80x120-ft., to LARSON & DANIELSON, Laporte, Ind. About $45,000. Noted June 29.

Mich., Lake Linden—High School—Bd. Education let contract to BAILEY & MARSH, Metropolitan Life Bldg., Minneapolis. About $160,000. Noted Apr. 13.

Wis., Plymouth—Hospital—Plymouth Hospital Association let contract, 2-story, 42x104-ft. brick, to W. C. RUNGE. Noted June 29.

Wis., Superior—Training School—State Bd. Regents let contract to J. S. WRINBERG, Grand Rapids, Wis., $75,142. Noted July 20.

Wis., Superior—School—Sherrick & Johnson, $52,587 low bidder on Franklin School. Noted Mar. 23.

Wis., Union Grove—State Bd. of Control let contract 10 buildings at Home of Feeble Minded to O. A. DIEMEN, Waukesha, $138,900. Noted July 6.

Iowa, Cedar Falls—School—G. L. Smith, Waterloo, submitted lowest bid. About $40,000. W. P. Aitken, Secy. School Bd.

Iowa, Geneva—School—Consolidated Bd. Education let contract, 2-story, to M. O. GERNER CO., Des Moines. About $50,000. Noted July 13.

Iowa, Hubbard—School—Bd. Education let contract, 2-story, 62x124-ft., to BLACKHAWK CONSTRUCTION CO. About $48,000. Noted June 15.

Iowa, Osage—(Official)—Grade School—Bd. Education let contract to M. M. MOEN, Calmar. About $65,000. Noted July 6.

Iowa, Oskaloosa—Fair Association let contract fair ground buildings to P. W. PARKS, 215 1st Ave. About $40,000. Noted June 8.

Iowa, Red Oak—High School—Bd. Education let contract, 3-story, 93x150-ft., to WAGENKNECHT & WALTERS, Wathena, Kan. About $115,000. Noted July 13.

Minn., Duluth—Church—Pilgrim Congregational Church received low bid, 2-story, from G. H. Lounsberry. About $135,000. L. Jensen, Exchange Bldg., Arch. Noted Mar. 2.

Kan., Kiowa—School—Bd. Education let contract, 2-story, to J. H. MITCHELL & SON, Wellington. About $40,000. Noted July 6.

N. D., Grand Forks—High School—Bd. Education let contract, 3-story, 32x33-ft., to GRAY CONSTRUCTION CO., Watertown, S. D. About $180,000.

Neb., Fremont—Hotel—Fremont Hotel Co. let contract, 6-story, 88x125-ft., to SELDEN-BRECK CONSTRUCTION CO., Keeline Bldg., Omaha. About $175,000.

Neb., Omaha—City Hall—City let contract, 5-story, 100x132-ft., to ROBERT BUTKE, 529 Paxton Bldg. About $40,000. Noted July 20.

Mont., Boulder—School—School for Blind let contract to B. BENSON.

Mo., Independence—High School—Bd. Education let contract, 3-story, 90x148-ft., brick, to L. CROSBY & SON, 518 Massachusetts Bldg., Kansas City. About $100,000. Noted July 13.

Mo., St. Louis—Club House — University let contract to SELDEN-BRECK CONSTRUCTION CO. About $320,000.

Ark., Clarksville—Dormitory—Cumberland College let contract to F. L. COX.

Ark., Greenwood—Courthouse—Sebastian County let contract, 2-story brick and stone, to T. T. REDDICK, 2701 May Ave., Ft. Smith, $62,500.

Tex., Sweetwater—Courthouse—City let contract to W. B. BERRY & CO., Lufkin, $89,340. Noted July 6.

Ore., Portland—Sisters of Good Shepard let contract building at Dekum Ave. and Congress St. to LITHERLAND & ABREY, Beck Bldg. About $90,000. Noted June 15.

The Latin-American Corporation has been organized under the laws of Maine with a capital of $1,000,000 as a subsidiary of the American International Corporation, to investigate and handle propositions from the Latin-American quarter. Charles A. Stone, Pres. of the American International Corporation, is Pres. o fthis corporation. R. P. Tinsley, Treas. of the American International, will be its Treas., and its directors, so far as announced, are Mr. Stone, Mr. Tinsley, W. S. Kies, P. W. Henry and Thomas W. Streeter. The organization will include an expert engineering and construction staff, and will be equipped not only for construction but for the operation of acquired properties. This corporation has under consideration numerous specific projects, including the consolidation and rehabilitation of existing tram lines, the construction of public works, including water-supply systems, sewerage systems and harbor developments, and the construction and development of railways. As far as possible it will be the policy of the new corporation to retain a substantial permanent interest in the projects which it undertakes, so that it will participate in future earnings. It will thoroughly investigate engineering and construction propositions presented to it and will tender its services to South American governments and municipalities in planning public works. Much of the work in prospect in South America will be financed through issues of government or municipal securities. Though the intrinsic value of these securities is not generally known to the American investor, and hence their market in this country is now limited, the new corporation is in possession of exact information regarding them, and in entering into contracts for the various projects which it has under consideration is in a position to assure itself of the entire safety of the securities which it accepts in payment and for their amortization out of earnings. It will be the policy of the American International Corporation to make the securities which it so receives the basis for its own issues of debentures. The American investor will thus be secured by the paid-up capital of the corporation in addition to the obligations that have been accepted by the corporation. The Latin-American Corporation will have headquarters for its South American activities at Buenos Ayres, and the staff for that office sailed from New York recently. One of the members of this party is Dr. R. P. Strong, who had charge of the Red Cross relief organization which stamped out typhus fever in Servia last year. Dr. Strong is an adviser upon sanitary work.

The John T. Walbridge Engineering Co., Chicago, Ill., announces the removal of its offices to 1101 Tower Bldg., 6 North Michigan Ave., Chicago.

Wallace & Tiernan Co., Inc., has moved into its new factory at 137 Center St., New York, where it will have over three times its present floor space and much beter facilities for handling its business.

STATION FINISH, NEW YORK, N. Y. Route No. 26, Sect. No. 1

Bids received July 14 by Public Service Commission for First Dist., for station finish for Grand Central Station of Queensboro Subway, Route No. 26, Sect. No. 1, from (A) T. J. WATERS CO., 271 West 125th St. (awarded contract); (B) Degnon Contracting Co., 30 East 42nd St.; (C) D. E. Connors, 64 West 88th St.; T. Dwyer, Broadway and 216th St., $30,146; J. B. Roberts, 3 West 29th St., $34,336; C. Meads & Co., 38 Park Row, $38,067. The item bids of the three lowest bidders were as follows:

	A	B	C
730 sq.ft. tile (w.g.) 4¼x4¼ in., straight	$0.65	$0.70	$0.70
4 sq.ft. tile (w.g.) 4¼x4¼ in., 1-in. radius comb	1.75	1.35	2.00
60 sq.ft. tile (w.g.) 4¼x4¼ in., 2½-in. radius comb	1.50	1.35	1.50
16 sq.ft. tile (w.g.) 4¼x4¼ in., 20-in. radius comb	1.60	1.10	1.30
10 sq.yd. plastering—arches, concrete	1.00	.90	.80
1,040 sq.yd. plastering—flats, brick or hollow tile	.65	.60	.60
210 sq.yd. plastering—flats, concrete	.70	.60	.70
3,610 sq.yd. hydrolithic plastering—brick, concrete, arched flat	.80	2.00	1.80
2,720 sq.ft. cement work, wainscots	.18	.14	.30
17,340 sq.ft. cement work, 3rd floor finish	.15	.14½	.20
12 cu.yd. concrete work, foundations	10.00	7.50	8.00
175 cu.ft. concrete work, reinforced	.75	.55	.60
400 cu.ft. concrete work, protective	.75	.45	.80
800 lin.ft. tread concrete stairs, etc., supported stairs	1.10	.75	1.25
425 sq.ft. concrete stairs, etc., supported landings	.65	.30	.50
400 sq.ft. concrete stairs, etc., non-slip treads	1.25	1.00	2.00
50 lin.ft. concrete stairs, etc., cement bases	.40	.22	.50
100 lin.ft. concrete stairs, etc., exposed cement finish	.35	.15	.30
10 cu.ft. hollow tile, 2 in	.90	.85	1.20
700 cu.ft. hollow tile, 3 in	.65	.65	.80
150 cu.ft. hollow tile, 4 in	.65	.50	.60
2,050 cu.ft. hollow tile, 6 in	.50	.50	.50
80 weep holes, hollow tile walls	1.00	.35	.50
100 galvanized strap anchors	.30	.35	.50
10 sq.yd. metal lath, without furring	1.00	.50	2.00
1 ticket booth, special type	375.00	50.00	60.00
6 doors, type "E"	75.00	90.00	90.00
3 doors, type "EE" (pair)	125.00	100.00	120.00
25 sq.ft. doors, type "K"	7.00	6.75	5.00
150 sq.ft. doors, sliding	3.50	5.75	2.00
175 sq.ft. windows, double hung	4.50	4.50	4.00
1 additional hardware, door checks	6.00	5.75	6.00
1 additional hardware, door stops	4.00	4.00	5.00
9 additional hardware, rubber covered chains	2.00	3.00	3.00
100 lin.ft. railings, pipe	2.50	2.00	1.80
8,360 sq.ft. wooden fences, partitions	.23	.16	.20
4 lin.ft. sign posts, etc., enameled reflectors	5.00	2.20	3.00
100 sq.ft. sign posts, etc., enameled sign plates	.65	.45	.50
250 sq.ft. sign posts, etc., sign frames	5.00	5.00	2.00
50 lin.ft. tread steel ladders, ladders	7.00	2.20	2.00
10 sq.ft. steel ladders, ladder platforms	3.00	3.50	2.00
1,235 lb. steel ladders, steel shapes	.08	.05	.08
1 lb. steel ladders, ladders—platform to track floor	25.00	11.00	15.00
60 lin.ft. hand rails, oak	1.25	.70	.70
1,000 lin.ft. platform edge construction, wooden facia	.40	.30	.35
700 per hole platform edge construction, drilling facia ang	.45	.25	.30
Removing, resetting hose valves, Sect. 219 (lump sum)	225.00	100.00	800.00
100 lin.ft. conduits, ¾ in	.25	.20	.20
175 lin.ft. conduits, 1 in	.30	.25	.22
50 lin.ft. conduits, 1½ in	.40	.30	.25
100 lin.ft. conduits, 2 in	.50	.35	.30
50 lin.ft. conduits, 2½ in	.60	.65	.50
50 lin.ft. conduits, 3 in	.70	.80	.60
50 lin.ft. conduits, ¾ in. flexible	.30	.25	.20
10 special conduit fittings—removable cover	5.00	.90	1.50
10 c.-i. outlet boxes	2.00	1.00	1.00
10 c.-i. pull boxes, 6x6x4 in	3.00	10.00	3.00
2 steel panel board boxes, 25x6x49 to 60 in	25.00	15.00	30.00
2,825 sq.ft. painting, iron and steel (3 coats)	.03½	.04	.04
11,200 sq.ft. painting, plaster (2 coats)	.02	.03	.03
Hollow metal part of elevator shaft, sect. 116 (lump sum)	2,828.00	4,000.00	3,600.00
Extended totals	$22,648	$25,858	$27,756

BARGE CANAL, ALBANY, N. Y.

Contract No. 52

Bids received July 18 by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal Work, Contract No. 52, constructing terminals, from (A) George W. Rogers & Co., Inc., 29 Broadway, New York; (B) Kaufman & Garcey, 51 Chambers St., New York. The item bids were as follows:

	A	B
Removal of old material	$3,000.00	$3,000.00
12,800 sq.ft. removing concrete deck	.10	.12
39,300 lin.ft. foundation and bracing piles	.335	.40
133 fender piles	16.50	16.50
219 M ft. b.m. sawed lumber	66.00	60.00
323 M ft. b.m. sawed lumber treated	74.00	70.00
15,500 sq.ft. surface treatment of existing lumber	.015	.015
36 cu.yd. second class concrete	9.00	9.00
900 cu.yd. first-class reinforced concrete	11.95	12.00
2,650 lb. rigid metal conduit	.08	.08
215,000 lb. structural steel	.055	.05
16,500 lb. steel castings	.065	.06
8,900 lb. iron castings, plain	.045	.04
2 special roller cleats	264.00	240.00
7 one-way spools	110.00	100.00
69,500 lb. metal reinforcement	.0425	.0425
100 pile shoes	.90	.75
4,370 sq.yd. asphalt pavement	1.38	1.20
Extended totals	$93,189	$91,317

The Phœnix Iron Works Co., Meadville, Penn., has been reorganized, the company having recently satisfied a mortgage of $100,000 against its plant and equipment, and has sold a new issue of $250,000 first mortgage bonds, mostly in Pittsburgh. The company has made some extensive improvements and additions to its plant, including an extension to the foundry, an increase in the power-plant equipment and extensions to the boiler-erection plant. Its products consist of boilers, engines and gray-iron castings. The new officers are: Joseph McK. Speer, Pres.; W. C. Schade, Vice-Pres. and Gen. Mgr, and E. P. Cullum, Secy. and Treas.

The Improved Equipment Co., 60 Wall St., New York, specialists in combustion engineering, announces the opening of a boiler furnace department. The designing and engineering of this department are to be in charge of Wylie B. Wilson. The sales engineering will be in charge of George L. Prentiss.

PUMPING STATION AND SEWERS, PLAINFIELD, N. J.

Bids were received by city July 3 for pumping station and sanitary sewers from (A) LANGE & HASLAM CO., Ridgefield (awarded contract); (B) James Ferry & Sons, Inc., Baltimore, Md.; (C) John M. Kelley Co., Camden. The item bids were as follows:

Vitrified Sewer Pipe:	A	B	C
1,860 lin.ft. 8-in., under 6 ft. deep	$0.71	$0.82	$0.713
22,840 lin.ft., 8-in. 6 to 8 ft. deep	.96	1.04	1.25
7,839 lin.ft. 8-in., 8 to 10 ft. deep	1.01	1.015	1.80
731 lin.ft. 8-in., 10 to 12 ft. deep	1.26	1.60	1.89
782 lin.ft. 8-in., 12 to 14 ft. deep	1.56	2.20	3.02
590 lin.ft. 8-in., 14 to 16 ft. deep	2.06	3.00	3.23
40 lin.ft. 8-in., 16 to 18 ft. deep	2.56	4.00	3.57
880 lin.ft. 10-in., under 6 ft. deep	.83	.89	.80
710 lin.ft. 10-in., 6 to 8 ft. deep	1.08	1.12	1.45
1,855 lin.ft. 10-in., 8 to 10 ft. deep	1.23	1.33	1.78
1,190 lin.ft. 15-in., 6 to 8 ft. deep	1.67	2.00	2.00
260 lin.ft. 15-in., 8 to 10 ft. deep	2.12	2.75	2.42
1,075 lin.ft. 18-in., under 6 ft. deep	2.00	2.16	2.11
781 lin.ft. 18-in., 6 to 8 ft. deep	2.25	2.45	2.42
1,530 lin.ft. 18-in.; 8 to 10 ft. deep	2.95	3.50	2.57
904 lin.ft. 18-in., 10 to 12 ft. deep	3.30	4.25	3.28
185 lin.ft. 18-in., 12 to 14 ft. deep	3.75	6.00	3.52
25 lin.ft. 24-in., 14 to 16 ft. deep	5.30	8.00	6.09
Cast-Iron Pipe Sewer:			
430 lin.ft. 8-in., under 6 ft. deep	1.65	1.55	1.34
405 lin.ft. 8-in., 6 to 8 ft. deep	1.85	1.78	1.98
859 lin.ft. 8-in., 8 to 10 ft. deep	2.15	2.09	2.67
258 lin.ft. 10-in., 6 to 8 ft. deep	2.20	1.85	2.48
710 lin.ft. 10-in., 8 to 10 ft. deep	2.45	3.00	2.99
125 lin.ft. 12-in., under 6 ft. deep	2.50	2.42	2.63
527 lin.ft. 12-in., 6 to 8 ft. deep	2.70	2.61	3.11
475 lin.ft. 12-in., 8 to 10 ft. deep	2.90	3.50	3.52
205 lin.ft. 12-in., 10 to 12 ft. deep	3.15	5.00	3.90
105 lin.ft. double 12-in. crossing under C. R.R. of N.J	30.00	17.50	11.16
710 lin.ft. 18-in., 6 to 8 ft. deep	3.50	4.32	4.45
135 lin.ft. 18-in., 8 to 10 ft. deep	4.00	6.00	5.36
1,020 4-in. tee branches on 8-in. vit. sewer	1.16	.45	1.00
84 4-in. tee branches on 10-in. vit. sewer	1.55	.70	1.33
44 4-in. tee branches on 15-in. vit. sewer	2.95	1.10	2.37
49 4-in. tee branches on 18-in. vit. sewer	4.30	1.45	2.23
3 4-in. tee branches on 8-in. c.-i. sewer	8.80	8.00	12.60
6 4-in. tee branches on 10-in. c.-i. sewer	13.00	11.25	16.80
8 4-in. tee branches on 12-in. c.-i. sewer	15.00	14.45	21.92
15 4-in. tee branches on 18-in. c.-i. sewer	23.00	23.00	34.59
17 4-in. crosses on 8-in. c.-i. sewer	12.50	9.50	15.21
7 4-in. crosses on 10-in. c.-i. sewer	15.00	13.50	19.38
2 4-in. crosses on 12-in. c.-i. sewer	19.00	17.00	24.51
2 4-in. crosses on 18-in. c.-i. sewer	25.00	25.00	38.04
52 4-in. extension connections	2.50	3.50	4.04
6,560 4-in. c.-i. pipe house connections	.75	.70	1.00
1,000 4-in. underdrains open joints	.20	.30	.22
500 6-in. underdrains open joints	.35	.35	.30
500 6-in. underdrains tight joints	.50	.50	.33
Standard Manholes:			
5, under 6 ft. deep	55.00	43.00	46.21
51, 6 to 8 ft. deep	65.00	43.00	54.55
21, 8 to 10 ft. deep	70.00	43.00	68.86
4, 10 to 12 ft. deep	75.00	43.00	78.41
2, 12 to 14 ft. deep	80.00	43.00	94.36
1, 14 to 16 ft. deep	90.00	43.00	103.14
Special manholes:			
3, under 6 ft. deep	55.00	53.00	53.90
10, 6 to 8 ft. deep	65.00	53.00	67.93
11, 8 to 19 ft. deep	70.00	53.00	89.47
3, 10 to 12 ft. deep	75.00	53.00	98.41
1, 12 to 14 ft. deep	80.00	53.00	113.50
10 flush tanks	125.00	75.00	123.56
34 combination flush tanks	1[illegible]0.00	125.00	172.58
6 8-in. drop connection	15.00	10.00	11.24
1 10-in. drop connection	20.00	12.00	11.24
400 cu.yd. concrete for concreted sewer	8.00	8.00	8.00
20 cu.yd. concrete in excess of that on drawing	8.00	10.00	8.00
30 M ft. b.m. lumber for bracing	40.00	30.00	30.00
15 M ft. b.m. lumber for constructing platforms and foundations	50.00	60.00	30.00
6,000 lin.ft. foundation piles	.55	.25	.08
200 cu.yd. foundation of screened gravel, slag or broken stone	3.50	3.00	3.18
50 cu.yd. rock excavation	3.00	4.00	4.00
2,500 sq.yd. reconstructing macadam pavement	.70	1.50	.60
100 sq.yd. reconstructing bituminous pavement	.70	2.00	1.30
10 4-in. c.-i. pipe spurs built in manholes	5.00	2.00	2.00
Pumping station. building and well (lump sum)	5,848.00	4,200.00	4,368.00
Pumping station machinery (lump sum)	5,022.00	6,700.00	4,061.62
900 12-in. c.-i. force main	1.85	2.00	3.36
28 12-in. c.-i. pipe 8-bend 6-ft. radius	9.60	7.00	6.78
Concrete connecting chamber (lump sum)	125.00	50.00	150.00
Extended totals	$115,235	$119,113	$124,202

The Barrett Co., formerly the American Coal Products Co., reported to stockholders Aug 1 that a balance equal to 24¼% on the $11,298,000 common stock had been earned in the six months ended June 30 after the preferred-stock dividend had been accounted for. The amount available for dividends on the junior stock issue was $2,738,453, a total nearly three times as great as the balance in the same period of 1915. Besides scoring a net income at the annual rate of 48½% on the common stock from its own business, the company will share in the profits of the Benzol Products Co. before the end of the current year. A one-third interest is owned in this concern, which has devoted its capacity to the manufacture of elements entering into dyestuffs since the war began. The Barrett Co. has distributed to stockholders from the earnings of the first six months a cash dividend of 3½% and a dividend of 7% in common stock.

The Asbestos Protected Metal Co., Pittsburgh, Penn., announces that it will be represented in Cincinnati, Ohio, and surrounding territory by R. C. Irwin, Union Trust Bldg.

Lidgerwood Manufacturing Co, New York City. Catalog. Lidgerwood Cableways for Hoisting and Conveying. Illustrated; 16 pp.; 9½x12 in. Removable cover. A special bulletin devoted to the application of the cableway to concrete-bridge construction, illustrated by a number of views of typical large jobs where the cableways have been used. So arranged as to permit the future addition of loose leaves containing more data.

SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until Aug. 22, 1916.

Two Concrete Bridges

Westfield, Mass.

Sealed proposals will be received by the Town Engineer at his office, Town Hall, Westfield, Mass., until 11 A.M. of Tuesday, August 22, 1916, for building the reinforced-concrete superstructures and the concrete foundations of Cowles Bridge over Little River and Loomis Street Bridge over Munn's Brook and for the removal of the present structure of Cowles Bridge.

Cowles Bridge will be, approximately, 150 feet long between abutments by 42 feet wide over all, and will consist of two arch spans each about 53 feet long in the clear, and one girder span about 28 feet in length. Loomis Street Bridge will be, approximately, 80 feet long between abutments by 22 feet wide over all, and will consist of two girder spans each about 36 feet long in the clear.

Plans, specifications, form of proposal, contract and bond may be obtained on and after August 14 at the office of the Town Engineer, and also at the office of Fay, Spofford & Thorndike, consulting engineers, 308 Boylston Street, Boston, Mass., upon deposit of five dollars, which deposit will be refunded upon the return of the plans and papers in proper condition.

Each proposal must be accompanied by a certified check for $1,000, payable to the Town of Westfield. A bond of an approved surety company for $5,000 will be required for the satisfactory performance of the contract.

Bids must be enclosed in sealed envelopes, marked "Bid on Cowles Bridge and Loomis Street Bridge." Bids will not be received for each bridge separately. The Board of Selectmen reserves the right to reject any or all proposals and award the contract as it deems best.

DEXTER A. SNOW,
CHARLES L. HOUGHTON,
LOUIS L. KEEFE,
Board of Selectmen.

JOHN L. HYDE, Town Engineer.
August 9, 1916.

⁂

Bids received until Aug. 14, 1916.

State Highways

OFFICE OF THE STATE COMMISSION OF HIGHWAYS,

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m. on Monday, the 14th day of August, 1916, for the construction of highways in the following counties:

Albany	(approx. 0.10)
Broome	(approx. 4.70)
Cayuga	(approx. 5.45)
Cortland	(approx. 6.07)
Delaware	(approx. 6.51)
Erie	(three highways—3.54; 0.91; 6.03)
Essex	(approx. 4.95)
Fulton	(approx. 2.80)
Hamilton	(approx. 6.74)
Herkimer	(approx. 5.84)
Jefferson	(approx. 5.05)
Montgomery	(approx. 2.49)
Niagara	(approx. 2.38)
Oneida	(approx. 6.15)
Ontario	(approx. 3.95)
Oswego	(approx. 0.57)
Rensselaer	(approx. 7.20)
Rockland	(approx. 8.62)
Schenectady	(approx. 1.95)
Seneca	(two highways—3.67; 0.24)
Tioga	(approx. 6.00)
Tompkins	(approx. 5.86)
Ulster	(approx. 3.12)
Washington	(approx. 1.43)

Sealed proposals will also be received at 1 o'clock p.m. on Wednesday, the 16th day of August, 1916, for the construction of the following highways:

Allegany	(approx. 9.07)
Broome	(approx. 6.93)
Cattaraugus	(approx. 4.73)
Delaware	(approx. 3.39)
Erie	(three highways—3.18; 1.12; 5.09)
Franklin	(approx. 1.99)
Fulton	(approx. 2.90)
Herkimer	(approx. 5.67)
Jefferson	(approx. 4.05)
Monroe	(approx. 3.69)
Niagara	(approx. 0.61)
Oneida	(approx. 5.74)
Ontario	(approx. 2.26)
Orleans	(approx. 1.32)
Oswego	(approx. 6.56)
Rensselaer	(approx. 4.87)
St. Lawrence	(approx. 4.60)
Schenectady	(approx. 6.33)
Schuyler	(approx. 3.01)
Seneca	(approx. 4.89)
Tioga	(approx. 5.50)
Tompkins	(approx. 3.38)
Ulster	(approx. 0.55)
Washington	(approx. 4.58)
Westchester	(approx. 2.74)

Sealed proposals will also be received at 1 o'clock p.m. on Friday, the 18th day of August, 1916, for the construction of the following highways:

Broome	(approx. 5.35)
Cattaraugus	(approx. 2.17)
Chautauqua	(two highways—0.74; 3.90)
Delaware	(approx. 4.31)
Erie	(three highways—3.75; 4.50; 5.17)
Franklin	(approx. 10.36)
Fulton	(approx. 3.74)
Montgomery	(approx. 2.70)
Nassau	(approx. 3.38)
Ontario	(approx. 0.82)
Oswego	(approx. 0.36)
Otsego	(approx. 8.13)
Rensselaer	(approx. 6.34)
St. Lawrence	(approx. 9.12)
Saratoga	(approx. 1.10)
Schoharie	(approx. 2.73)
Seneca	(two highways—2.13; 2.63)
Tompkins	(two highways—0.43; 0.61)
Ulster	(approx. 3.17)
Washington	(approx. 6.98)
Wayne	(approx. 1.88)
Westchester	(approx. 1.74)

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineers in whose division the roads are to be improved. The addresses of the division engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "General Information for Bidders" on the itemized proposal, specifications and contract agreement.

EDWIN DUFFEY, Commissioner.
I. J. MORRIS, Secretary.

Bids received until Aug. 15, 1916.

Water Tube Boiler

New Philadelphia, Ohio.

Bids will be received until noon of Tuesday, August 15th, 1916, for the furnishing and installing of One 200-Hp. Water-Tube Boiler for City of New Philadelphia, Ohio. JAMES E. SCOTT,
Director of Public Service.

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Bids received until Aug. 29, 1916.

State Highway Work

STATE OF MARYLAND
STATE ROADS COMMISSION
NOTICE TO CONTRACTORS

Baltimore, Md.

Sealed Proposals for building two sections of State Highway, as follows:

Contract No. H-17—
HARFORD COUNTY:

One section from Forest Hill to Ramsey's Corner, about 6.1 miles in length. (Concrete or Macadam Class "C.")

Contract No. S-9—
SOMERSET COUNTY:

One section from Costen to Pocomoke, about 2.35 miles in length. (Concrete or Bituminous Concrete.)
will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 29th day of August, 1916, at which time and place they will be publicly opened and read.

Bids must be made upon the blank form contained in the book of specifications. Specifications and plans will be furnished by the Commission upon application and cash payment of $1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred ($500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission, this 3rd day of August, 1916.

F. H. ZOUCK, Chairman.
CLYDE H. WILSON, Secretary.

⁂

Bids received until Aug. 15, 1916.

Concrete Pavement

Greenwich, Conn., Aug. 1, 1916.

Sealed proposals for about 8,000 sq.yd. of reinforced-concrete pavement will be received by the Highway Commission of the Town of Greenwich, Conn., at the Borough Court Room, in the Town Hall, until 5:30 P.M. on Tuesday, August 15, 1916.

Specifications, general and detail plans can be seen and blank form of proposal obtained at the office of the Engineer, Room 5, Greenwich Trust Co. Building, Greenwich, Conn. The right is reserved to reject all bids.

LUKE VINCENT LOCKWOOD,
Chairman,
WILLIAM F. DECKER,
ROBERT L. CHAMBERLAIN,
JOHN MAHER,
F. HARRIS NICHOLS,
NATHANIEL A. KNAPP,
Highway Commission.

Construction News

RAILWAYS, STEAM AND ELECTRIC

Proposed Work

Pennsylvania—Beaver Valley Traction Co., New Brighton, plans to reconstruct 3,800 ft. of track. W. H. Boyce, New Brighton, Supt. and Park Mgr.

Pennsylvania—Womelsdorf, Richland & Myerstown Street Railway Co. chartered to build line from Womelsdorf and Myerstown to Richland, 8 mi. L. R. Valentine, Womelsdorf, and A. C. Klopp, Sheridan, interested. Noted May 18.

West Virginia—Cherry River & Southern Ry. plans line. Address G. W. Curtin, Curtin, W. Va.

West Virginia—Norfolk & Western Ry. plans to extend electric operation from Vivian westward, 10 mi. and from Welch up Tug Fork Branch, 5 mi. A. C. Needles, Roanoke, Va., Gen. Mgr.

West Virginia—Wellsburg & Eastern Railway Co. granted franchise for line along Buffalo Creek from Wellsburg, W. Va., to Washington, Penn., 25 mi. Noted Feb. 24.

North Carolina—Glennings Lumber Co. plans to rebuild Catawba Falls Ry. from Old Fort to Catawba Falls, 412 mi.

North Carolina—Seaboard Air Line made surveys for line from Hamlet to Gibson. W. D. Faucette, Norfolk, Va., Ch. Engr.

Georgia — Surveys made and right-of-way secured for electric railroad from Atlanta, Ga., to Anderson, S. C. W. A. Hammell, Atlanta, interested. Noted Mar. 30.

Georgia—A. M. Rea, Savannah, Secy. and Treas. of Savannah & Western Railway Co., and associates interested in line from Florence, Ga., to Estill, S. C., in connection with Seaboard Air Line to reach Savannah.

Florida—Hillsborough Interurban Railway plans line from Tampa to Safety Harbor. J. E. Winter, Tampa, Vice-Pres.

Florida—West Coast Electric Railway Co. applied for charter for line from Tampa to Venice, via Palmetto, Bradentown, Sarasota and Bee Ridge. A. E. Townsend, Sarasota, Gen. Mgr. Noted May 18.

Mississippi—Alabama & Mississippi R.R., Vinegar Bend, Ala., plans line from Leakesville to Laurel, 60 mi. M. Lankford, Supt. Ways and Streets. Noted Apr. 27.

Mississippi—Russe & Burgess, Inc., Isola, plans line to develop timber land.

Tennessee—Nashville, Chattanooga & St. Louis Ry. made surveys for line from Cope Springs to Big Ridge on Cumberland Mountain and to coal mines, Sequatchie. H. McDonald, Nashville, Ch. Engr. Noted Apr. 20.

Tennessee—New Orleans, Mobile & Chicago R.R. making preliminary plans for extending line from Middleton to Jackson. W. F. Owen, Mobile, Ala., Receiver. Noted June 1.

Ohio—Cleveland, Cincinnati, Chicago & St. Louis Ry. plans improvements at Bellefontaine. About $330,000. C. A. Paquette, Cincinnati, Ch. Engr.

Ohio—Cleveland, Southwestern & Columbus Electric Ry. secured right-of-way for 3 mi. cutoff around Berea. E. F. Schneider, 525 Garfield Bldg., Cleveland, Gen. Mgr.

Ohio—Letherman-Gehman Co. plans railroad switch across McGregor Ave., N. W., to warehouse, Canton.

Ohio—Mahoning Valley Ry. plans extending North Ave. line, Youngstown.

Missouri—Bd. Pub. Ser. authorized United Railway Co. to build tracks on St. Charles St., St. Louis. A. M. Lupfer, Portland, Ore., Ch. Engr.

Texas—Atchison, Topeka & Santa Fe Ry. making surveys for line from Lubbock through Brownfield and Terry County to point in Gaines County. C. F. W. Felt, Chicago, Ch. Engr.

Oklahoma—North Texas & Santa Fe R.R., subsidiary of Atchison, Topeka & Santa Fe R.R., applied for charter for railroad from Shattuck, Okla., west through Libscomb, Ochiltree and Hansford Counties, Tex. C. F. W. Felt, Chicago, Ch. Engr.

Arizona—(Press)—Phelps, Dodge & Co. plans to extend line of El Paso & Southwestern R.R. from Douglas to Sonora, via Cananea and Imuria.

Oregon—Roseburg & Eastern R.R. receiving bids about Sept. 25 for railroad, 30 mi. R. L. Whipple, City Recdr. Noted July 20.

California—Atchison, Topeka & Santa Fe Ry. making surveys for line from Redlands into Greenspot fruit dist. C. F. W. Felt, Chicago, Ill., Ch. Engr.

California—Mindeler & Southern Railway Co. soon lets contract for line from Lindsay to Porterville, 11 mi. About $400,000. G. W. Harris, Lindsay, Ch. Engr.

Ontario—Canadian Northern Railway System, Toronto, plans to electrify Grand Beach Line. W. C. Muir, Winnipeg, Man., Gen. Mgr.

Bids In and Contracts Awarded

New Jersey—Pennsylvania R.R., Phillipsburg, let contract for enlarging and improving track space in yards to MINNEMAN-SINN CONTRACTING CO., Philadelphia, Penn.

Florida—Atlantic Coast Line R.R. let contract extending Haines City Branch from Sebring to Immokalee, 80 mi., to WADE, CLOWER & WADE, Jacksonville. Noted Mar. 2.

Tennessee—Contract railroad spur to mine of Columbus Coal Mining Co., Walkers Branch, Knoxville, let to SULLIVAN & ADAMS, Louisville.

Kentucky—Baltimore & Ohio R.R. let contract line, 26 mi., on Long Fork R.R. from Martin to Weeksbury to BATES & ROGERS CONSTRUCTION CO., Old Colony Bldg., Chicago. Noted June 22.

California—Visalia Electric Railroad Co. let contract grading 20 mi. roadbed in Porterville to ROBERT SHERER & CO. F. W. Webster, Exeter, Gen. Mgr.

British Columbia—Canadian Northern Railway Co. let contract railroad from Kamloops to Kelowna to NORTHERN CONSTRUCTION CO., 606 Union Bank Bldg., Winnipeg, Man. Noted Dec. 23.

LIGHT, HEAT AND POWER

Proposed Work

Maine, Bangor—E. Lisherness, Engr., 116 Exchange St., making plans for hydro-electric power plant. About $50,000.

Maine, Turner—Turner Light and Power Co. plans improvement to its plant.

Mass., Lynn—City granted franchise to Eastern Massachusetts Electric Co. to erect transmission lines on city property at Lynnfield.

N. Y., Hamburg—Depew & Lancaster Light, Power and Conduit Co. acquired local electric-light plant and will improve same.

N. Y., Northport—Long Island Lighting Co. granted permission to issue $80,000 capital stock and $92,000 bonds to improve its properties at Northport and Sayville.

N. Y., Syracuse—(Official)—New York State College of Forestry, Syracuse University, receiving bids Aug. 22 for power house. L. F. Pilcher, Capitol, Albany, State Arch. (See adv. Aug. 10 issue.)

N. J., Harrison—Crucible Steel Co. plans addition to boiler house.

N. J., New Brunswick—City Com. plans electric-light plant. A. Atkinson, City Engr.

Penn., Bowmansville—Bowmansville Electric Co., recently organized, granted franchise to install electric-light plant in Bowmansville.

Penn., Clifton Heights—Stewart & Fleet plans electric-light plant in connection with woolen mills.

Penn., Coatesville—Chester Valley Electric Co. plans addition to boiler room and power plant. F. W. Harris, Mgr. F. R. Weller, Hibbs Bldg., Washington, D. C., Arch.

Penn., New Castle—City making plans street lighting system, Long Ave., 5th and 8th Wards. E Brown, City Clk.

Penn., Somerset—L. C. Lambert making plans for hydro-electric power plant on Stonycreek River and dam, 750 ft. long.

N. C., Badin—Carolina Power and Light Co., Raleigh, plans hydro-electric plant on Yadkin River, Badin. P. A. Tillery, Raleigh, Ch. Engr.

La., St. Martinville—City receiving bids Aug. 22 for power house. A. Bienvenu, Mayor.

Ohio, Cincinnati—Cincinnati Sanitarium plans 65x75-ft. boiler house.

Mich., Lansing—Michigan State Fair Association plans to install electric-light system. G. W. Dickinson, Pontiac, Gen. Mgr.

Minn., Dover—Herbert Merrifield granted franchise to extend transmission lines through Dover.

Kan., Augusta—City soon votes on $10,000 electric-light extension bonds.

Neb., Omaha—Omaha Electric Light and Power Co. plans addition to plant. About $900,000.

S. D., Clark—City votes soon on installing electric-light system.

N. D., Esmond—Page & Holbrook, Rugby, interested in installation of electric-light system in Esmond.

Mo., Lebanon—(Official)—Citizens defeated $8,000 electric-light plant bonds. T. B. Burley, City Clk. Noted Aug. 3.

Ore., Myrtle Creek—City votes Aug. 26 to vote on $27,000 bonds for electric-light system improvements. M. G. Germond, Redmond, Engr. Noted July 27.

Calif., Los Angeles—City plans substation at 1636 St. John St., about $50,000. Homer Hamlin, City Engr.

Bids In and Contracts Awarded

N. Y., New York—(Bronx)—(Official)—Interborough Rapid Transit Co. let contract substation, 152nd St. and River Ave. to McDERMOTT & HANIGAN, 103 Park Ave., Manhattan.

W. Va., Sprigg—Tug River Electric Co. let contract addition to power house to C. E. CARLIN, Sprigg. About $15,000.

Mich., Negaunee—Bd. Pub. Wks. let contract addition to boiler house at electric-light plant to L. ERICKSON & SON, Ishpeming.

Mich., Three Rivers—Sheffield Car Co. let contract 1-story, 50x50-ft. hydro-electric plant to BENJAMIN DOUGLAS CO., Ann Arbor. Noted May 11.

Ill., Beardstown—Chicago, Burlington & Quincy Railroad Co. let contract boiler house and stack to C. W. GINDELE CO., South La Salle St., Chicago. About $15,000.

Ill., Lebanon—City let contract electric-light plant to F. C. SCHWANER & CO., Bank of Commerce Bldg., St. Louis, Mo. About $10,000. Noted Aug. 3.

Iowa, Sioux City—City let contract power and heating equipment in courthouse to McGRAW CO., $23,634.

S. D., Alcester—City let contract transmission line and distribution system, 10 mi., to A. HUBBARD ELECTRIC CO., 103 East 5th St. Noted July 13.

Calif., San Francisco—Pacific Gas and Electric Co. let contract raising Lake Spaulding Dam to TWOHY BROS., First National Bank Bldg.

Que., Quebec—Contract installing electric-light system at Quebec Exhibition Grounds let to GOULET & BELANGER, Quebec, about $11,000.

BRIDGES

Proposed Work

Maine, Hampden—City making plans for concrete highway bridge over Sourdabscock Stream. About $4,000. Paul D. Sargent, Engr.

Mass., Westfield—(Official)—City receiving bids Aug. 22 for concrete bridges over Little River and Munns Brook. John L. Hyde, Town Engr. Noted July 20. (See adv. in Aug. 10 issue.)

Mass., Westfield—(Official)—John L. Hyde, Town Engr., receiving bids Aug. 22 for 2 rein.-con. bridges. Noted Aug. 3.

N. J., Lambertville—Bd. Freeholders receiving bids Aug. 24 for bridge on Union St.

N. J., Pennsgrove—Salem & Pennsgrove Traction Co. plans bridge at Penn's Neck.

Penn., Easton—County making plans for 3 bridges. Address County Clk., Easton.

Penn., Harrisburg—County plans concrete bridge over Swartara Creek. About $20,000. Address County Clk., Harrisburg.

Penn., McConnellsburg—County Comrs. receiving bids Aug. 21 for bridge near Dublin Mills. Address County Clk., McConnellsburg.

Penn., New Castle—County submitted plans to State Comrs. for bridge over Big Run at Moravia St. T. A. Gilkey, New Castle, County Engr.

Md., Easton—See item under "Streets and Roads." Noted Apr. 20.

W. Va., Berkeley Springs—(Official)—Morgan County receiving bids Sept. 2 for rein.-con. bridges. Address County Clk., Berkeley Springs.

W. Va., Grafton—County Court receiving bids Aug. 22 for 3 bridges. Address County Clk., Grafton.

N. C., Dobson—County Comrs. plan replacing bridges destroyed by flood. Address County Clk., Dobson.

N. C., Yadkinville—County Comrs. plan replacing bridges destroyed by flood. Address County Clk., Yadkinville.

Ga., Vienna—Dooly County, Vienna and Sumpter County, Americus, plans bridge over Flint River at Murray's Ferry. Address County Clk., Vienna.

Fla., Cocoa—City will sell $75,000 bonds for Cocoa and Merritt Island Bridge. C. M. Roger, Daytona, Engr.

Fla., Escambia—Escambia Santa Rosa Bridge Co. plans bridge across Escambia River at Perry Pass.

Fla., Ft. Lauderdale—(Official)—County Comrs. soon receive bids for 2 steel highway bridges. Frank A. Bryan, Ft. Lauderdale, Clk. Noted June 22.

Bridges (Continued)

Fla., Jacksonville—County Comrs. making plans for bridge across St. Johns River. Harrington, Howard & Ash, Kansas City, Mo., Engr. Noted July 20.

Ala., Calvert—County receiving bids Aug. 28 for bridge across Poll Bayou. Address County Clk., Mobile.

Ala., Mobile—City and various railroads plan viaduct at 10th St.

Tenn., Waynesboro—Wayne County Court made appropriation for bridge across Roach Creek. Address County Clk., Waynesboro.

Ohio, Canton—City plans bridge over East Creek at 6th St., N. E.

Ohio, Cleveland—County soon to receive bids for completing Detroit-Superior Ave. bridge. William A. Stinchcomb, Cleveland, County Surv. Noted Feb. 24.

Ohio, Cleveland—County receiving bids Aug. 23 for bridge works per Report Nos. 3772, 3773, 3774 and 3775. E. S. Krause, Cleveland, County Clk.

Ohio, Columbus—County receiving bids Aug. 25 for repairing Eureaka Ave. culvert. John Scott, Clk.

Ohio, Coshocton—County Comrs. sold $12,300 bridge bonds. Address County Clk., Coshocton.

Ohio, Hamilton—County Comrs. receiving bids Aug. 23 for bridges across Seven Mile Creek. About $12,000. W. W. Crawford, Hamilton, County Clk. Noted Feb. 24.

Ohio, Wapakoneta—County Audr. receiving bids Aug. 18 for sale of $38,000 bridge bonds.

Ohio, Warren—County making plans for Main St. Bridge. R. E. Hempel, Warren, County Engr.

Ind., Elwood—Bd. County Comrs. making plans for 2 concrete bridges. Address County Clk., Anderson.

Ind., South Bend—County receiving bids Aug. 28 for 3 bridges. Address County Clk., South Bend.

Ind., South Bend—Bd. Comrs. receiving bids Aug. 21 for rein.-con. culvert. A. W. Wolf, South Bend, County Audr. Noted June 22.

Mich., Ann Arbor—(Official)—City receiving bids Sept. 6 for bridge over Huron River on Broadway.

Ill., Ottawa—County making plans for 12 bridges. About $8,000. Clifford Older, State Bridge Engr., Springfield.

Ill., Watseka—(Official)—County receiving bids Aug. 21 for 4 rein.-con. bridges. Benjamin Jordan, Watseka, County Supt. of Highways.

Wis., Sheboygan—C. U. Boley, Sheboygan, making plans for viaduct on South 14th St. About $50,000.

Iowa, Marshalltown—City making plans for bridge across Linn Creek. W. H. Steiner, City Engr.

Minn., Aitkin—County made plans for bridge over Ditch No. 30. H. C. Beecher, Aitkin, County Audr.

Minn., Bemidji—City receiving bids Aug. 21 for rein.-con. bridge across Mississippi River at inlet to Lake Bemedji. T. W. Swinson, City Engr. G. Stein, City Clk.

Minn., Bethel—County made plans for bridge near Bethel. Address County Clk., Anoka.

Minn., Byron—County receiving bids Aug. 21 for bridge work. Theodore Peterson, Rochester, County Audr.

Minn., Detroit—County plans Bridge No. 2278. Address County Clk., Detroit.

Minn., Kerkhoven—Town Bd. receiving bids Aug. 24 for bridge across Mud Creek, Sect. 18. D. P. Carney, Benson, County Audr.

Minn., Montevido—City plans Bridge No. 2340 over Minnesota River. J. J. Stennes, Audr.

Minn., Raymond—City making plans for Bridge No. 2314 in One Tree and Reiderland Townships.

Minn., St. Cloud—County receiving bids Aug. 23 for State Bridge No. 1988, and improving State Bridge No. 2014. N. Thomey, St. Cloud, County Audr.

Minn., Sauk Rapids—County made plans for Bridge No. 2315. Address County Clk., Sauk Rapids.

Minn., Windom—County making plans for Bridge No. 2333 in Delton Township. S. A. Brown, Windom, County Audr.

Minn., Worthington—County receiving bids Aug. 21 for 125 culverts. G. Swanberg, Worthington, County Audr.

Kan., Iola—(Official)—See item under "Streets and Roads."

Kan., Kansas City—Bd. Pub. Wks. making plans for rein.-con. bridge on 27th St. Hedrick & Hedrick, 506 Inter-State Bldg., Engr.

N. D., Crosby—County receiving bids Aug. 21 for steel bridge. T. W. Davies, Crosby, County Engr.

Neb., Omaha—City making plans for bridge across Missouri River between Omaha and Council Bluffs, Iowa.

Mo., Kansas City—City made plans for College Ave. Viaduct over Air Line. Waddell & Son, Graphic Arts Bldg., Kansas City.

Tex., Ft. Worth—City votes on $300,000 bonds for Allen Ave. Viaduct. J. Von Zuben, City Engr. Noted July 6.

Bids In and Contracts Awarded

Maine, Southport—City let contract bridges from Southport to Boothbay to F. W. EARLETON, Bath. About $17,500. Noted July 15.

Mass., Salem—County Comrs. let contract building bridge over Danvers River between Salem and Beverly to HOLBROOK, CABOT & ROLLINS CORPORATION, 6 Beacon St., Boston. About $171,367. Noted July 27.

N. Y., Perry—Town Bd. let contract rein.-con. viaduct to SHAW & GRETHWOL, Batavia. Noted June 29.

N. Y., Portageville—(Official)—Town Supt. Genesee Falls let contract concrete arch bridge over Genesee River to CLEVELAND & SONS CO., Brockport, $24,720. Noted Aug. 2.

N. Y., Poughkeepsie—Central New England Railroad Co. let contract 2 bridges, North and Clinton St. to C. A. SIBLEY, Albany. About $22,000. Noted June 15.

Pennsylvania—Philadelphia & Reading R.R., Philadelphia, let contracts for bridges at Jenkintown and Ft. Washington to F. B. BRANAGAN, and slab and steel bridges at Shelly and Quakertown to A. L. CARHART.

Penn., Linesville—County Comrs. let contract bridge over Linesville Creek on Main St. to FERRY CONCRETE CO., Harrisburg. About $5,647.

Penn., Turtle Creek—Boro. Council let contract bridge on Maple Ave. to UNITED STATES CONSTRUCTION CO., Pittsburgh.

Penn., Williamson—County Comrs. let contract bridge to W. H. MURPHY & SON, Chambersburg.

W. Va., Hamlin—County Court let contract highway bridge across Guyandotte River to SHIPS & THOMPSON, Huntington. About $17,000. Noted July 27.

W. Va., Wheeling—(Official)—County let contract bridge work to LUTEN BRIDGE CO., York, Penn., about $9,900 and C. B. KIMBERLY CO., about $6,100. Noted Aug. 3.

Miss., Pascagoula—(Official)—Jackson County let contract bridge over West Pascagoula River to GINIA BRIDGE CO., Mobile, Ala. About $89,394. Noted July 6.

Tenn., Benton—Polk County Bridge Comr. let contract steel bridge over Hiwasee River to HANCOCK, HARBIN & HANCOCK, and VIRLORIMER & BUTLER BRIDGE CO., Chattanooga. About $22,979. Noted July 20.

Tenn., Knoxville—City let contract concrete arch bridge over Little River to LUTEN BRIDGE CO., Knoxville. About $11,598.

Ohio, Akron—(Official)—Summit County let contract bridge over canal on West Exchange St. to P. F. McCOURT CO., Akron. About $14,926. Noted July 27.

Ind., La Porte—(Official)—County let contracts for bridge and abutments to H. A. WILHELM, La Porte, WILLIAM A. STEIGELY, La Porte, FRANK SHAFFER, Mill Creek, and ROCHESTER BRIDGE CO., Rochester. Noted Aug. 3.

Ind., Salem—County let contract 6 bridges to MONTGOMERY-PARKER CO., Hatfield. About $11,150. Noted July 20.

Ill., Carthage—City let contract rein.-con. bridge to GEORGE GRIFFITH, JR., 428 Odd Fellows Bldg., St. Louis. About $12,600.

Ill., German Valley—City let contract Molter Bridge to W. A. SILJEQUIST, Freeport.

Ill., Joliet—County let contract Baker Bridge to G. POWERS, Joliet. About $4,065.

Ill., Mt. Carroll—(Official)—County let contract for 8 bridges to G. E. HUNGERFORD, Mt. Carroll; about $6,733; 14 bridges and culverts to O. KAMPWEIER, Shannon; about $5,464; W. E. BAILEY, Chadwick, 7 bridges and culverts; about $3,155. Noted July 20.

Ill., Quincy—County let contract rein.-con. box culvert to C. A. WEVER & SON, Clayton. Noted June 29.

Wis., De Pere—City let contract repairing Main St. Bridge over Fox River to GREILING BROS. CO., Green Bay. About $7,300.

Wis., Racine—Peter Myers, Atty., let contract repairing highway bridges in Root River Drainage Dist. to WORDEN ALLEN CO., Milwaukee. About $8,310.

N. D., Ellendale—(Official)—County let contract for 2 bridges to GREAT NORTHERN BRIDGE CO., Minneapolis, Minn. About $12,500 and $3,500. Noted July 27.

Mo., Kansas City—City received low bid from John McMurray Construction Co., Kansas City, for temporary approach to Kaw River bridge. About $19,450.

Mo., Kansas City—Kansas City Terminal Co. let contract bridge over Kaw River on Osage Ave. to ARKANSAS BRIDGE CO., 2d and Wyandotte St. About $1,500,000.

Ark., Earle—County Comrs. let contract viaduct from Arkansas bend of New Memphis Bridge to St. Francis Levee to BALL & PETERS, Memphis, Tenn. Noted Apr. 6.

Calif., Napa—County let contract concrete bridge over Conn Creek to C. H. GLIDERSLEEVE, Napa. About $5,415. Noted July 6.

Calif., Riverside—City let contract 7 bridges Drainage Dist. No. 2 to CALLAHAN & WINSHIP. About $52,700. Noted June 15.

Calif., Santa Ana—Bd. County Supervs. received low bids for bridge over Santa Ana River on West Chapman Ave. from H. Clay Kellogg, Santa Ana, $23,555; G. S. Atkinson, $2[illegible]; S. M. Kerns, Long Beach, $25,850. S. H. Finley, Santa Ana, County Engr. Noted Aug. 3.

Calif., Spenceville—County Suprv., Marysville, rejected bids for concrete bridge over Dry Creek. Noted May 4.

WATER-WORKS

Proposed Work

Maine, Bath—City plans reservoir, 3,000,000-gal. capacity. About $50,000. E. S. Crosby, Chn. Com.

Mass., Fitchburg—City plans extending water mains in South Main St. A. W. F. Brown, Supt.

N. Y., Batavia—City votes Aug. 21 on $16,000 water bonds. Chester & Fleming, Pittsburgh, Penn., Engr.

N. Y., Johnstown—City plans storage reservoir. About $40,000.

N. Y., Lancaster—Village Engr. plans extending water system.

N. Y., Niagara Falls—City authorized $72,000 bonds for water mains. W. J. Callahan, Supt.

N. J., Ogdensburg—City plans water system. About $30,000.

Penn., Butler—State Water Comrs., Harrisburg, approved plans for water system.

Penn., Erie—Hammermill Paper Co. retained Chester & Fleming, Engr., Pittsburgh, to make plans for rein.-con. settling basins for 20,000,000-gal. filter plant. Bids soon to be received. E. W. Humphreys, Supt.

Penn., Harmony—State Water Comr. approved plans for water system.

Penn., Montrose—Montrose Water Co. plans improving water system and installing filters.

Penn., Punxsutawney—Punxsutawney Water Co. plans enlarging reservoir on hill south of West End.

N. C., Rougemont—City making plans for concrete reservoir and water mains. F. Reil, Engr.

Ga., Madison—City plans water system. G. W. Hubbard, Supt.

Tenn., Knoxville—City election Sept. 30 to vote on $225,000 water bonds. Address J. G. Crumbliss, Comr. Noted Aug. 3.

Ohio, Akron—City plans additional water system. About $225,000. Harry H. Frost, Supt.

Ohio, Alliance—City sold $120,000 water bonds. L. A. Tonkle, Supt. Noted July 20.

Ohio, Bucyrus—Water Com. recommends extension of water mains. Henry Diedrick, Supt.

Ohio, Cincinnati—John H. Allen, Pres. Longview Hospital Bldg. Comn., receiving bids Sept. 1 for c.-i. pipe, gate valves, etc. J. A. Heller, Supt.

Ohio, Cincinnati—City plans pumping station for Main and Central Ave. Dist. J. A. Hiller, Supt.

Ohio, Columbus—City plans enlarging filter plant.

Ohio, East Palestine—City sold $35,000 water bonds. W. H. Van Fossen, Supt.

Ohio, Galion—City plans purchase and improvement of water plant. M. J. Breece, Supt. and Secy.

Ohio, Lima—City plans improving water system. About $73,000. Joseph Askins, Supt.

Ohio, Medina—F. L. Rollins, Supt. Water-Wks., receiving bids Aug. 19 for filter plant and pumping station.

Ind., Hammond—City making plans for filter plant. E. N. Jewitt, Supt.

Mich., Highland Park—(Official)—Village receiving bids Aug. 21 for 40,000,000-gal. rein.-con. reservoir. R. M. Ford, Village Clk. Noted Aug. 3. (See adv.)

Ill., Barry—City receiving bids Aug. 24 for improving water-system. Noted July 27.

Ill., Beardstown—City plans 150,000-gal. water tank. Robert Maslin, City Clk.

Wis., Evansville—See item under "Sewers."

Iowa, Hampton—City soon to receive bids for water mains. Levi Talhem, Supt.

Iowa, Jewell—L. W. Cox, Engr., 621 Grand Ave., Des Moines, receiving bids Aug. 28 for extending water system. A. Alexander, Comr.

Iowa, Volga—City to vote Aug. 21 on $14,000 water bonds. Noted June 20.

Minn., Glenwood—City plans to extend water mains. J. L. McLaury, Supt.

Minn., St. Paul—City making plans for water system. John F. Druar, 311 Commercial Bldg., St. Paul.

Neb., Arnold—(Official)—City receiving bids Aug. 22 for water system. About $14,500. Leonard Stubing, Clk. Noted Aug. 3.

Neb., Wayne—City receiving bids Sept. 5 for sale of $12,000 water bonds. E. Murrill, Supt. Noted July 6.

Water-Works (Continued)

S. D., Belle Fourche—D. McCurchen, Water Comr., receiving bids Aug. 26 for water system. About $30,000.

Wyo., Rawlins—City plans new water system. About $150,000.

Ark., Stuttgart—City making plans for water system. About $85,000. White, Humphreys & Tovey, Pine Bluff, Engr.

Tex., Alba—City plans water system. About $25,000. Henry Elrod, Southwestern Life Bldg., Dallas, Engr.

Tex., Beaumont—City votes Sept. 5 on $330,000 water improvements bonds.

Tex., Miami—City retained Henry E. Elrod, Southwestern Life Bldg., Dallas, to make plans for water and electric-light systems. About $25,000.

Okla., Ardmore—City voted $45,000 water bonds. G. H. Bruce, City Clk. Noted July 27.

Okla., Crowder—City voted water bonds. Noted June 15.

Okla., Enid—City Comrs. plans to vote on bond issue for water system. Noted Apr. 20.

Okla., Tulsa—City voted $300,000 water bonds. H. H. Wyss, City Engr. Noted July 27.

Colo., Colorado Springs—City plans to improve water system. About $187,000. B. B. Reynolds, Supt.

Idaho, Cœur d'Alene—City defeated $280,000 water and light bonds. Noted June 22.

Ariz., Wickenburg—A. W. Aiken, Jr., Deputy Town Clk., will let contract about Sept. 15 for water system. Noted July 20.

Wash., Tacoma—City appropriated $23,000 for water mains. W. D. Nicheus, City Clk.

Que., Aylmer—Chn. Water Com. receiving bids Aug. 24 for filter plant. About $25,000. Noted May 18.

Ont., London—Utilities Bd. plans 10,000,000-gal. reservoir. E. V. Buchanan, Gen. Mgr.

Bids In and Contracts Awarded

Mass., Holbrook—City let contract extending water mains in South St. to A. C. TROJANO, 87 Lawrence St., Brockton. About $7,000. Noted July 6.

La., Shreveport—City rejected bids for pumping station.

La., Westwego—City to let contract in September for water system. V. A. Pitre, interested. Noted July 27.

Ohio, Ironton—Dir. Pub. Ser. received low bids for pumping station and intake wells from Hosman & Shumway, Portsmouth, about $69,000. and Atkinson & Atkinson, Louisa, about $180,100.

Ohio, South Charleston—Bd. Trustees Pub. Affairs let contract water system to KELSO CO. About $36,600. Noted July 20.

Ind., Brazil—City let contract pumping station tc STEEL & CO., Hymera.

Ill., Glendive—(Official)—Bd. Trustees let contract water system as follows: ROBERT SHANNON, 421 Pleasant St., Joliet pipe, about $24,704; KEYSTONE DRILLER CO., 53 West Jackson Blvd., Chicago, pump, about $1,500; CHICAGO BRIDGE AND IRON WORKS, 105th and Throop St., Chicago, tank and tower, about $4,095. Noted July 27.

Neb., Dixon—(Official)—City let contract water system to ALAMO ENGINE AND SUPPLY CO., Omaha. About $8,918. Noted July 27.

Tex., Kingsville—Bd. Comrs. let contract c.-i. pipe to AMERICAN CAST IRON PIPE CO., Birmingham, $32,902; and specials, $844; lead to KINGSVILLE LUMBER CO., Kingsville. $2,720; valves and valve boxes to FAIRBANKS CO., New Orleans, $3,333; hydrants to COLUMBIAN IRON WORKS, Chattanooga, Tenn. Noted July 20.

N. M., Springer—City let contract water and sewer systems to BROWN & DECEW CONTRACTING CO., Las Vegas. About $27,435. Noted Apr. 13.

Wash., Auburn—(Official)—City let contract 8,000-ft. water mains to W. H. GALLAGHER, Auburn. About 12½c. per lin.ft. Noted July 27.

Ore., Silverton—City let contract water system to SILVER FALLS TIMBER CO. About $16,000. Noted June 8.

SEWERS

Proposed Work

Mass., Haverhill—City plans sewer in Main St. Lewis C. Lawton, City Engr.

Conn., Hamden—City plans sewer system.

N. Y., Fulton—(Official)—City receiving bids Aug. 28 for storm sewer. C. Milton Allen, Jr., City Clk. (See adv.)

N. Y., New York—(Brooklyn)—(Official)—L. H. Pounds, Borough Pres., receiving bids Aug. 23 for sewers in Bay 35th St., East 4th St., Ave. I, 56th St., 16th Ave., 23d Ave., Ave. J, Delamere Pl., East 12th St., 71st St., East 7th St. and East 4th St.

N. Y., New York—(Manhattan)—(Official)—M. M. Marks, Borough Pres., receiving bids Aug. 23 for sewers in 22d St. and Wadsworth Terrace.

N. Y., Olean—Common Council receiving bids Aug. 23 for sanitary and storm sewers in West State St. E. E. Allen, City Engr. Noted July 27.

N. J., Camden—City receiving bids Aug. 21 for sewers. L. E. Farnham, City Engr.

N. J., Kingston—(Official)—Plans approved for sewage plant at St. Joseph's College. C. S. Sincerbeaux, Engr.

N. J., Montclair—City plans sanitary sewer in Laurel Pl. E. S. Clossom, Municipal Bldg., Engr.

N. J., Red Bank—(Official)—City plans sewer and sewage systems.

N. J., Riverton—Borough plans disposal plant. About $50,000. Haines & Sherman, Masonic Bldg., Camden, Arch.

N. J., South Orange—City passed ordinance for sewer in Walton Ave. Ira T. Redfern, City Engr.

N. J., Trenton—(Official)—City plans extending sewers in several streets. J. R. Feel, Jr., City Engr.

Penn., Beaver Falls—County Comrs. rejected bids for sewage plant. New bids to be received. Charles S. Donaldson, City Engr. Noted June 8.

Penn., Bellwood—City receiving bids Aug. 21 for sewer and Imhoff tank. Harvey Linton, 1717 13th St., Altoona, Engr.

Penn., Claremont—City plans sewer system. About $10,000.

Penn., Elwood City—City retained L. D. Tracey, Engr., Pittsburgh, to make plans for sewer in 4th ward.

Penn., Hazleton—State Bd. of Health authorizes sewer system. Barton E. Youngman, Engr.

Penn., Media—Borough Council plans improving and extending sewer system. About $70,000. Bonds sold.

Penn., Wellsboro—State Health Comr., Harrisburg, recommends sewage system and extending sewers.

D. C., Washington—Comrs. receiving bids Sept. 5 for sewers. J. Kappeyne, City Engr.

Ala., Anniston—City voted $20,000 sewer bonds. W. O. Ward, Clk.

Ala., Piedmont—City voted $20,000 sewer bonds. P. F. Roberts, Mayor. Noted May 4.

Ky., Richmond—City votes in November on sewer bonds. J. S. Boggs, City Engr.

Ohio, Akron—City receiving bids Aug. 25 for vitrified tile sewers. E. A. Zeisloft, Engr.

Ohio, Ashtabula—City plans sanitary sewers in Hines and Bancroft St. L. A. Amsden, City Engr.

Ohio, Batavia—H. C. Babbitt, Lockland, submitted plans for sewer system. About $33,000.

Ohio, Cleveland Heights—(Warrensville post office)—H. H. Canfield, Village Clk., receiving bids Sept. 5 for storm and sanitary sewers and water main in Hampshire Rd.

Ohio, Columbus—Jerry O'Shaughnessy, Supt. Water and Sewage, receiving bids Aug. 21 for sewage pumping station.

Ohio, Kent—City receiving bids Aug. 28 for $60,000 sewer bonds. Fred Bechtle, City Clk.

Ohio, Kenton—City plans sewer No. 1 in eastern district. C. H. Hutchinson, City Engr.

Ohio, Lebanon—City passed ordinance to issue $20,000 sewer bonds.

Ohio, Marion—City plans sanitary and storm sewers in Clover St. H. H. Noyes, City Engr.

Ohio, Massillon—City plans sewer in portion Fave St. H. McYost, City Engr.

Ohio, Napoleon—City making plans for storm water sewers in Washington St. W. O. Hudson, City Engr.

Ohio, Oak Harbor—L. L. Carstensen, Village Clk., receiving bids Aug. 28 for sewer in Ottawa St.

Ohio, Youngstown—Carnegie Steel Co. submitted plans to Bd. of Health for sewage plant. C. Brown, Pittsburgh, Penn., Ch. Engr.

Ind., Kokomo—Bd. Pub. Wks. receiving bids Aug. 21 for sewer.

Ind., Logansport—Bd. Pub. Wks. receiving bids Aug. 22 for sanitary sewer.

Ind., Princeton—City receiving bids about Sept. 1 for north side sanitary sewer. About $20,000. H. J. Toelle, City Engr.

Ind., South Bend—City plans sewers in West Division St. About $17,000. F. J. Anderson, City Engr.

Mich., Highland Park—(Official)—Village receiving bids Aug. 21 for drains in Davison and Dequindre Ave. R. M. Ford, Village Clk. (See adv.)

Mich., Houghton—See item under "Streets and Roads."

Mich., Iron Mountain—City plans sanitary sewers. Alvord & Burdick, 8 South Dearborn St., Chicago, Engr.

Ill., Chicago—John McGillen, Clk. Sanitary Dist. of Chicago, receiving bids Aug. 31 for sewer.

Ill., Du Quoin—City receiving bids Aug. 20 for sewers. H. A. Brazier, City Engr.

Wis., Appleton—Bd. Pub. Wks. receiving bids Sept. 2 for sewer in Fair St. E. L. Williams, City Clk.

Wis., Cashton—City receiving bids Aug. 21 for sewage plant. W. S. Woods, La Crosse, Consult. Engr.

Wis., Evansville—Bd. Pub. Wks. receiving bids Aug. 24 for 10 and 8 in. sewers, 2 manholes and 6 and 4 in. c.-i. water mains. E. B. Parsons, City Engr.

Wis., Mensha—City making plans for sanitary sewer. S. S. Little, City Clk. Noted July 27.

Wis., Whitefish Bay—City voted $100,000 sewer system bonds. E. Martel, City Clk. Noted Mar. 30.

Iowa, Eldon—(Official)—City rejected bids for sewer system. New bids Aug. 21. H. E. Ritz, City Clk. Noted Aug. 3.

Iowa, Muscatine—City plans improving sewer and drainage systems. About $16,000. C. H. Young, City Engr.

Minn., Chisholm—City plans 12 mi. sewer. About $30,000. B. H. Graham, Recdr.

Minn., Madison—City receiving bids Aug. 28 for sewer and sewage systems. L. P. Wolf, Germania Life Bldg., St. Paul, Engr.

Minn., Osakis—City plans sewers. S. J. Lyons, City Clk.

Kan., Sedan—City making plans for sewer system. About $25,000. E. T. Archer & Co., 514 New England Bldg., Kansas City, Mo., Engr.

N. D., Fargo—City Combs. plans trunk sewer. About $20,000. Frank L. Landers, City Engr.

Mont., Three Forks—City plans sanitary sewers. Swearington & McCulloch, Great Falls, Engr.

Mo., Harrisonville—City voted sewer bonds. G. Bird, Harrisonville, Engr. Noted July 27.

Tex., Crockett—City soon receives bids for sewer system. About $35,000. Address City Clk.

Tex., Ft. Worth—City to vote in September on $800,000 bonds; $360,000 for sewage plant and $300,000 for street improvements. Noted July 6.

Tex., Marlin—City made plans for sewer system. A. Goodrich, City Engr.

Tex., Victoria—City sold $35,000 sewer bonds. Noted July 20.

Okla., Ardmore—City voted $20,000 sewer bonds. V. Mullen, Mayor. Noted July 27.

N. M., Springer—See item under "Water-Works." Noted Mar. 9.

Calif., Corona—City Trustees retained Olmstead & Gillelen, Consult. Engr., 1112 Hollingsworth Bldg., Los Angeles, to make plans for storm sewer. About $100,000.

Calif., Hermosa Beach—City receiving bids Oct. 15 for sewage plant. About $27,000. C. R. Sumner, City Engr.

Calif., Los Angeles—City receiving bids Aug. 21 for storm and sanitary sewers. Homer Hamlin, City Engr.

Calif., Sacramento—City receiving bids Aug. 22 for sewers and drains. M. J. Desmond, City Clk.

Bids In and Contracts Awarded

Mass., Lenox—City let contract sewer system to SUSI & WILLIAMS, 306 Hanover St., Boston.

Conn., East Hartford—City let contract 10-in. sewer in Toland St. and 8-in. sewer in Pine, Fern and Bliss St. to LOUIS PATROSSI, Hartford. About $4,143.

N. Y., New York—(Broklyn)—(Official)—L. H. Pounds, Boro. Pres., Borough Hall, received low bids for sewer in portion Bedford Ave. from Angelo Paino, 2622 Bath Beach, Brooklyn, Arthur A. Dumproff, Pasquali Tonasetti. Noted Aug. 3.

N. Y., Utica—City let contract sewers in Wetmore and Newell St. and Jefferson Ave. to J. R. BAXTER, JR., Mann Bldg.

N. J., Skillman—New Jersey State Epileptic Village let contract sewage plant to J. F. SHANLEY CO., 31 Clinton St., Newark, $42,460. Noted June 29.

Penn., Brentwood—Borough Council let contract sanitary sewer Dist. No. 1 to FRANK GEORGE, 7121 Jenkins Arcade Bldg., Pittsburgh, $39,604. Noted May 25.

Penn., Midland—City let contract sanitary sewer to J. B. REED & CO., McKees Rocks, about $8,000 and storm sewers to BURNS BROS., New Castle, about $7,000.

Penn., Washington—City let contract sewers in Broad and Edwing St. to WILLIAM PICKETT CO.

Va., Williamsburg—City let contract sewer system to WINGO & DEANER, Richmond, $10,178. Noted Apr. 6.

Ala., Birmingham—City Comrs. let contract sewers in Woodland and Gate City to H. N. BOWDRY, Empire Bldg. About $18,236.

Ky., Lexington—(Official)—Bd. Comrs., City Hall, let contract sewage plant to SULLIVAN CONSTRUCTION CO., Lexington. About $207,184. Noted July 20.

Ohio, Newark—City let contract sewers in Gainor, Cedar Crest and Franklin Ave. and Prospect St. to M. T. KEELEY.

Ohio, Portsmouth—City let contract Hilltop sewer to A. E. MILLER CONSTRUCTION CO. About $41,000. Noted July 6.

Ohio, Ravenna—Dir. Pub. Ser. let. contract sanitary sewers to HOAG & DALL, Commercial Bldg., Cleveland. About $8,567. Noted June 29.

Ind., Evansville—Bd. of Pub. Wks. let contracts for sewers in Magnolia and Geil Ave. to DENNIS SWEENEY; and in Pennsylvania and Ohio St. to EVANSVILLE PLUMBING CO. Noted Apr. 27.

Mich., Ann Arbor—(Official)—City let contract sewers to HOCHREIN & CO., Ann Arbor. About $13,088. Noted Aug. 10.

Ill., Chicago—(Official)—Low bid received Aug. 3 for Calumet Intercepting Sewer, Contract No. 7,

Sewers (Continued)

(a) concre~~te, spoil~~ area furnished, (b) brick and concrete, ~~spoil area~~ furnished, (c) concrete, spoil removed by contractor, (d) brick and concrete, spoil removed by contractor from Nash-Dowdle Co., Chicago, (b) $989,701; T. J. Forschner Contracting Co., Lemont, (a) $900,761, (c) $912,031, (d) $1,018,731.

Ill., Dixon—City let contract sewer in Ottawa Ave. to RINL & SCHNEILL. Noted Apr. 20.

Wis., Laurium—Common Council let contract 8-in. sewer in several streets to JOSEPH CHATEL.

Wis., Superior—Bd. Pub. Wks. let contract sewer in several streets to MAGNUS PETERSON.

Wis., Washburn—Common Council let contract storm sewers in Bayfield St. to D. R. MERSWA, La Crosse.

Wis., Wausau—(Official)—Bd. Pub. Wks. let contract sewer in Adams St. to CARL LOTZ, Wausau. Noted July 27.

Iowa, Cedar Rapids—City let contract storm sewers in 20th and 21st St. and Park Ave. to J. B. FORD.

Iowa, Elkader—City let contract sewers to O. C. KRINGLE, Strawberry Point. Noted July 13.

Minn., Mabel—(Official)—City let contract sanitary sewer and sewage plant to W. C. FRASER, St. Paul, $6,842. Noted Aug. 3.

Minn., St. Paul—City let contract sewer in Selby Ave. to E. T. WEBSTER, $7,830.

Kan., Hiawatha—City let contract sewers and disposal plant to C. G. LAUNDER, 3821 Bell Bldg., Kansas City, Mo. Noted July 6.

S. D., Yankton—(Official)—City let contract sewer in Douglas Ave. to GOETZ CONSTRUCTION CO., Yankton.

Mont., Great Falls—City let contract drainage system in 1st Ave. to F. E. EVANS CONTRACTING CO., about $6,521; sanitary sewer in 3d Ave., S., to HOYT HAYDEN, about $11,857.

Tex., Itasca—City let contract sewer system to EMERSON & HANNON, Dallas. About $15,000. Noted Mar. 23.

Calif., Oakland—City let contract storm sewer in Beck St. to BAKER & MARTIN, 310 Sheldon Bldg., San Francisco, $8,777.

Calif., Stockton—City received low bids for lateral sewers from Chambers & Healey, about $11,994; W. F. Edwards, about $7,745.

GARBAGE

Proposed Work

Penn., Clearfield—City soon receiving bids for garbage incinerator on Guinea Hill. E. W. Hess, City Engr.

Ga., Griffin—City plans crematory.

Ohio, Canton—City making plans for garbage disposal plant. About $100,000. Noted Dec. 2.

Mich., Menominee—Common Council plans incinerator plant. About $5,000. F. S. Norcross, City Clk.

Ill., Mattoon—City plans garbage disposal plant. About $5,000.

Bids In and Contracts Awarded

Wash., Spokane—City let contract concrete smokestack at crematory to WEBER CHIMNEY CO., $6,603, crematory furnaces to DECARIE INCINERATOR CO., 345 McKnight Bldg., Minneapolis, $3,000. Noted July 20.

STREETS AND ROADS

Proposed Work

Mass., Boston—City plans expenditure of $25,000 for granolithic walks. E. F. Murphy, Comr. Pub. Wks.

Mass., Haverhill—City plans improving streets. Louis C. Lawton, City Engr.

Conn., New Britain—City plans improving Winthrop St. W. H. Hall, City Engr.

N. Y., Binghamton—City plans improving Commercial Ave. About $35,000.

N. Y., New York—(Borough of Brooklyn)—Bd. Estimates appropriated $120,000 for paving portion of Eastern Parkway.

N. Y., New York—(Brooklyn)—(Official)—L. H. Pounds, Borough Pres., receiving bids Aug. 23 for regulating, grading, curbing and laying sidewalks on Dahlgren Pl., Douglas St., East 12th St., East 34th St., Elmore Pl., Hegeman Ave., Hinsdale St., Sneidiker Ave., Ave. Q, East 12th St., 63d St., 71st St., 76th St., 84th St., 85th St., and Sackman St.

N. Y., New York—(Richmond)—(Official)—C. D. Van Name, Borough Pres., receiving bids Aug. 22 for regulating and repaving with bituminous concrete on present foundation Broadway.

N. Y., Niagara Falls—City plans paving portion River Rd.

N. Y., Ravenna—City plans improving Main St. About $14,000.

N. J., Blairtown—City plans improving roads. About $6,000.

N. J., Burlington—City plans paving or resurfacing several streets.

N. J., Hackettown—County plans improving 14 roads. About $22,500. Fred W. Salmon, Hackettown, County Engr.

N. J., Montclair—City plans paving Laurel Pl. Edgar S. Clossom, Municipal Bldg., Engr.

N. J., Newark—Bd. Street and Water Comrs. receiving bids Aug. 31 for improving Abington Ave.

N. J., Newark—Bd. Streets and Water Comrs. to let contract in September for paving Prince St.

N. J., Paterson—Bd. Pub. Wks. plans paving with concrete Harrison and Jefferson St. Samuel R Orcott, City Clk.

N. J., Plainfield—City plans paving Main St. with brick.

N. J., Wildwood—City plans paving curbs and gutters. About $20,000. Harry Weir, City Hall, Engr.

Penn., Alden—City plans resurfacing streets. About $10,000. Thomas C. Janvier, 30 Runnymeade Ave., Lansdowne, Engr.

Penn., Berlin—City voted $12,000 bonds for paving Main St.

Penn., Carlisle—City passed ordinance for paving South Hanover and West Pomfret St.

Penn., New Philadelphia—(Silver Creek post office)—Boro. Council plans expenditure of $20,000 for paving.

Penn., Newport—City plans paving with brick 4th, Marie, Market, Mulberry and Walnut St. About $100,000. P. G. Hertz, Boro. Secy.

Md., Baltimore—City plans paving portion Gay St. About $100,000. R. M. Cooksey, City Engr.

Md., Baltimore—State Rd. Comn. receiving bids Aug. 29 for 2 sections state road.

Md., Easton—County Comrs. sold $50,000 road and bridge bonds. Address County Clk., Easton.

Md., Rockville—County receiving bids Aug. 22 for 2-mi. highway. Berry E. Clark, Rockville, County Clk.

Va., North View—Town Council will issue $24,000 street paving bonds.

W. Va., Huntington—City plans paving Harrison Ave. with brick; also 21 other streets. About $200,000. John Sanborn, City Engr.

W. Va., Lewisburg—(Official)—County receiving bids Aug. 31 for road improvements. Address County Clk., Lewisburg. Noted Apr. 20.

W. Va., Wheeling—Pittsburgh West Virginia Coal Co. granted permit to pave 2 mi. Colliers Rd.

W. Va., Winfield—County defeated $49,000 and $100,000 road bonds. Address County Clk., Winfield.

N. C., Fayetteville—County voted $25,000 road bonds. Address County Clk., Fayetteville. Noted May 25.

Fla., Miami—County soon lets contract for 17 mi. road. Address County Clk., Miami.

Ala., Center—County receiving bids Aug. 26 for extending public road. Address County Clk., Center.

Miss., Carthage—County Comrs. issued $22,000 road bonds. Address County Clk., Carthage.

La., Convent—City plans voting $200,000 road bonds.

Miss., Granada—County Comrs. will issue $100,000 road improvement bonds. Address County Clk., Grenada.

La., Baton Rouge—East Baton Parish Police Jury plans 42-mi. gravelled roads. About $130,000. John J. Mendiger, City Engr.

La., Covent—City votes Sept. 19 on $200,000 road bonds.

La., Lake Charles—City plans paving number streets.

La., New Orleans—(Official)—Highway Dept. receiving bids Aug. 28 improving Monroe-Winnsboro Highway, Ouachita, Parish. W. E. Atkinson, State Highway Engr.

Tenn., Knoxville—City sold $50,000 park bonds, $28,000 street improvement bonds. John E. McMillan, Mayor.

Ky., Newport—City soon receives bids for paving portion 10th St. About $15,000. J. Hermann, Court House, Engr.

Ky., Paducah—Comr. Pub. Wks. receiving bids for concrete sidewalk. About $40,000. L. A. Washington, Comr. Noted Apr. 6.

Ohio, Bowling Green—County sold $270,000 road bonds. Address County Clk., Bowling Green.

Ohio, Cleveland—City to vote $3,500,000 street extension bonds. Robert Hoffman, City Engr.

Ohio, Cleveland Heights—(Warrensville post office)—H. H. Canfield, Village Clk. receiving bids Sept. 5th for improving Hampshire Rd.

Ohio, Coshocton—City Council sold $44,000 street improvement bonds.

Ohio, Dennison—City Council receiving bids Aug. 26 for improving portions of Logan and 6th St. H. J. Andrews, Clk. Noted Apr. 6.

Ohio, Geneva—Village Clk. receiving bids Aug. 21 for sale of $4,500 road bonds. W. E. Morgan, Clk.

Ohio, Lakewood—Dir. of Finance receiving bids Aug. 28 for $37,490 street improvement bonds. B. M. Cook, Dir.

Ohio, Lorain—City passed resolution No. 997 to improve portion of alley west of Broadway. C. M. Osborn, City Engr.

Ohio, Oak Harbor—City receiving bids Aug. 28 for improving portion of Ottawa St. Louis L. Carstensen, Clk.

Ohio, Painesville—City plans improving South State St. J. Crabbs, City Engr.

Ohio, Port Clinton—County Comrs. receiving bids Aug. 21 for $26,500 highway improvement bonds. Address County Clk., Port Clinton.

Ohio, Salem—City made plans for improving portion of Etna St. B. M. French, City Engr.

Ohio, Salem—City receiving bids Aug. 16 paving Jennings Ave., Greene St. B. M. French, City Engr.

Ohio, Springfield—City receiving bids Sept. 5 for $28,745 paving bonds. W. J. Barrett, City Audr.

Ohio, Springfield—City receiving bids Sept. 5 for sale of $28,396 street improvement bonds.

Ohio, Youngstown—City plans improving East Federal St. About $139,000. Frank Lillie, City Engr.

Ohio, Zanesville—City passed resolution to improve portion Pine St.

Ohio, Zanesville—City passed resolution to improve portion Osage St.

Ohio, Zanesville—City passed resolution to improve portion Brighton Blvd. John S. Dennis, City Engr.

Ind., Angola—County Comrs. receiving bids Sept. 5 for road on Dekalb-Steuben County Line. F. C. Dewey, Angola, Audr.

Ind., Bloomington—Monroe County Comrs. receiving bids Sept. 4 for roads in Washington Township. Address County Clk., Bloomington.

Ind., Canelton—County Comrs. receiving bids Sept. 5 for stone road in Oil Township. M. C. Conway, Canelton, Audr.

Ind., Columbus—County Comrs. approved plans for 6-mi. concrete road. About $101,200.

Ind., Corydon—City sold $6,260 road bonds.

Ind., Danville—City sold $9,280 road bonds.

Ind., Elwood—City receiving bids Aug. 21 for improving East South "A" St. E. Rummel, City Clk.

Ind., Ft. Wayne—City Council appropriated $7,500 for street improvements.

Ind., Greensburg—County Comrs. receiving bids Sept. 4 for roads in Washington and Adams Townships. John C. Barbe, Greensburg, Audr.

Ind., Indianapolis—County sold $47,400 highway bonds.

Ind., Indianapolis—Bd. Pub. Wks. receiving bids Sept. 1 for improving 15 streets. Joseph A. Rink, Pres.

Ind., Indianapolis—Bd. Pub. Wks. receiving bids Sept. 6 for paving 1st alley and portion Kenwood St.

Ind., Indianapolis—Bd. Pub. Wks. receiving bids Sept. 8 for improving several streets.

Ind., Indianapolis—Bd. Pub. Wks. receiving bids Aug. 21 for paving portion Temple and Noble St.

Ind., Jeffersonville—County Comrs. receiving bids Sept. 4 for crushed stone and screening road in Utica Township. G. W. Stoner, Jeffersonville, Audr.

Ind., Kokomo—Bd. Pub. Wks. receiving bids Aug. 21 for improving portion Locke St. B. Gavens, City Clk.

Ind., Lebanon—County Comrs. sold $47,000 gravel road bonds. Address County Clk., Lebanon.

Ind., Mt. Vernon—County sold $9,660 road bonds.

Ind., Nashville—County Comrs. receiving bids Sept. 4 for 3 gravel roads in Van Buren and Washington Townships. Olive Morrison, Nashville, Audr.

Ind., New Castle—A. D. Newell, Mayor and Bernard Rocks, Street Comr., plans improving The Narrows.

Ind., Newport—County Comrs. receiving bids Sept. 4 for gravel road in Eugene Township. Roy Slater, Newport, Audr.

Ind., Rushville—County Comrs. receiving bids Aug. 29 for roads in Posey and Walker Townships. Allen R. Holden, Rushville, Audr.

Ind., Seymour—County Comrs. sold $115,300 highway bonds. Address County Clk., Brownstown.

Ind., Wabash—County sold $40,000 gravel road bonds. Address County Clk., Wabash.

Mich., Adrian—City plans improving roads. J. L. Richards, County Bldg., Adrian, Engr.

Mich., Hastings—County Comrs. authorized paving 2 mi. roads.

Mich., Houghton—City plans grading Kearsarge St. and installing catch basin.

Ill., Berwyn—Bd. Local Imprvts. receives bids Sept. 1 for paving Grove Ave. Charles Smith, Pres. Bd.

Ill. Berwyn—Bd. of Local Imprvts. receiving bids Sept. 1 for paving East Ave. Charles Smith, Pres. Bd.

Ill., Berwyn—Bd. Local Imprvts. soon receives bids for paving Kenilworth Ave. Charles Smith, Pres. Bd.

Ill., Berwyn—City making plans for paving Highland, Euclid, Harvey and Cuyler Ave. Charles Smith, Pres. Bd. Local Imprvts.

Ill., Danville—City plans improving portion of West Main St.

Ill., Edwardsville—City soon receives bids for paving Randle St. About $23,000. George Schaiffer, Bohn Bldg., Engr. Noted Mar. 30.

Streets and Roads (Continued)

Ill., Forest Park—City plans paving 12th St. and Desplaines Ave. About $52,699. Joseph T. Cooney, Clk.

Ill., Galesburg—Bd. Local Impvts. passed ordinance for paving Jefferson St. with brick. About $25,498.

Ill., Joliet—Bd. of Pub. Imprvts. soon receives bids for paving several streets with asphalt. C. D. O'Callahan, City Engr.

Ill., Knoxville—Charles Hoffman, Ch. Streets and Roads Com., receiving bids Aug. 28 for 10,000 sq.ft. cement road.

Ill., Moline—City plans paving portions of 6th Ave., 41st and 27th St.

Iowa, Muscatine—City plans improving Wyoming Hill.

Ill., Peoria—City plans paving portion Behrends Ave. About $14,435. L. D. Jeffries, City Engr.

Ill., Rock Island—City plans improving portion of 41st St. About $13,225. W. Treichlet, City Engr.

Wis., Merrill—City plans paving portions Mill, 1st and 2d St.

Wis., Sheboygan—City making plans for improving portion Giddings St. Will soon receive bids. Jerry Donahue, York Bldg., Engr.

Iowa, Denison—City receiving bids Aug. 21 for 10,000 sq.yd. concrete paving and 5,174 lin.ft. curbing. Frank Woolston, City Engr.

Iowa, Dubuque—J. J. Shea, City Recdr. receiving bids Aug. 17 for improving portion Eagle St.

Iowa, Dubuque—J. J. Shea, City Recdr. receiving bids Aug. 17 for improving portion Nevada St. Edward C. Blake, City Engr.

Iowa, Dubuque—J. J. Shea, City Recdr., receiving bids Aug. 17 for improving portion Pine St.

Iowa, Dubuque—J. J. Shea, City Recdr., receiving bids Aug. 17 for improving portion Viola St.

Iowa, McGregor—City making plans for highway between McGregor and North McGregor.

Iowa, Sioux City—City receiving bids Sept. 1 for 25,000 sq.yd. concrete paving, including 10,000 ft. concrete curb. T. H. Johnson, City Engr.

Minn., Crookston—City approved plans for paving Hunter St. with concrete. Noted Aug. 10.

Minn., Osakis—City plans cement sidewalks. S. J. Lyon, City Clk.

Minn., St. Paul—City plans paving portion Cretin Ave. O. Claussen, City Engr.

Minn., St. Paul—City plans paving portion Grand St. About $124,845.

Kan., Iola—(Official)—County receiving bids Aug. 22 for 6½ mi. road between Iola and Geneva; also 9 rein.-con. bridges and culverts. Address County Clk., Iola. Noted Aug. 10.

Kan., Minneapolis—City passed resolution to improve portion Mills St. A. D. Todd, Clk.

Kan., Pittsburgh—City passed resolution for improving portion Kansas Ave. Leonard Boyd, Clk.

Kan., Pratt—City petitioned to pave Main and Oak St. M. P. Jones, Clk.

Kan., Topeka—City plans paving portion Topeka Ave. Etta M. Covell, Clk.

Kan., Wichita—City plans paving portion Erie and 3rd St. B. C. Wills, City Engr.

Kan., Wichita—City plans paving portion Wabash Ave. H. D. Lester, Clk.

Neb., Beatrice—City passed ordinance for paving portions 8th, High, 6th, Lincoln and Grant St. H. M. Garrett, Clk.

Neb., Holdrege—City plans paving 20 blocks.

Neb., Omaha—City receiving bids Aug. 22 for paving 36th and 11 other streets. T. J. O'Connor, City Clk.

N. D., Bismarck—City making plans for paving several streets. R. H. Thistlewaite, City Clk. Noted Apr. 27.

Mont., Great Falls—County plans 450 mi. gravel and crowned dirt roads. About $500,000. E. A. Smith, Great Falls, interested.

Mo., Chillicothe—City plans paving and curbing portion of Ann St. J. O. Broaddus, City Engr.

Mo., Chillicothe—City making plans for repaving Locust St. with brick.

Mo., Holton—A. W. Mosley, Ch. Deputy Engr., receiving bids Aug. 21 for grading and paving Swope Park-Hickman Mills Rd.

Mo., Jefferson City—County voted $300,000 road bonds. Address County Clk., Jefferson City. Noted July 20.

Mo., Maysville—City making plans 6,000 yd. vitrified paving and 4,000 lin.ft. concrete curb and gutter. Charles E. McCrea, 217 Glendale Bldg., Kansas City, Engr.

Ark., Dardanelle—City plans 2-mi. concrete sidewalks. S. A. Huckaby, City Recdr.

Ark., Little Rock—St. Francis Rd. Dist. plans 65-mi. road. About $252,463. H. Levinson, City Engr.

Ark., Little Rock—City passed ordinance for paving portion 16th St. with creosoted wood blocks. W. M. Kavanaugh, Pres. Council.

Tex., Austin—County approved $121,000 of Ellis County levee bonds of Rd. Impvt. Dist. No. 2.

Tex., Corsicana—County Comrs. sold $280,000 road bonds. Address County Clk., Corsicana.

Tex., Dallas—City plans paving Parry Ave. and Grand St.

Tex., El Paso—City plans paving South and Vrain St. and East Blvd.

Tex., Dallas—City making plans for highway from Dallas to Mineral Wells. D. E. Colp, Secy. Texas Good Rd. Assoc.

Tex., Hereford—City plans improving streets. Bryant & Huffman, Engr.

Okla., Frederick—City plans paving 13 streets. Address City Clk.

Okla., Heavener—Heavener Township voted $16,000 road bonds.

Okla., McCurtain—Diamond Township voted $20,000 road bonds. W. O. Jenkins, Clk.

Colo., Boulder—County Comrs. plan improving Boulder Canon Rd. Address County Clk., Boulder.

Colo., Denver—State Highway Comrs. plan to issue $25,000,000 road bonds. John M. Kuykendall, Ch. Comrs.

Idaho, Boise—City receiving bids Aug. 29 for purchase of $29,286 paving and grading bonds, Dist. No. 22.

Idaho, Twin Falls—(Official)—City receiving bids Sept. 1 for paving portion Shoshone St. About $28,000. Reese M. Williams,, City Clk. Noted July 20.

Utah, Salt Lake City—Gordon Snow, City Recdr., receiving bids Aug. 22 for paving several streets. S. Q. Cannon, City Engr.

Ariz., Phoenix—City passed ordinance for improving portions 1st and Monroe St.

Wash., Centralia—City plans sidewalks and paving several streets. About $7,000.

Wash., Centralia—City Comrs. adopted resolutions for paving South, Pearl, Pear and Plum St.

Wash., Centralia—City plans improving portions of J and 4th St. About $10,000. Roy Welch, City Engr.

Wash., North Yakima—City making plans for paving East Yakima Ave. About $28,000. N. A. Gilman, City Engr.

Wash., Pomeroy—City plans paving portion of Arlington St. Harry St. George, City Clk.

Wash., Seattle—City plans paving Terry and Borden Ave., about $12,000; also repaving 14th Ave., W., about $10,000. C. B. Bagley, Secy. Bd. Pub. Wks.

Ore., Albany—County Court receiving bids Sept. 6 for road. J. R. Stanard, Albany, County Clk.

Ore., Bandon—County plans grading and graveling roads. About $63,000. Address County Clk., Bandon.

Ore., Hubbard—City plans paving with asphalt 2d, 3d, A, C, D, G and J St. S. A. Cobb, Oregon City, Engr.

Ore., Sandy—City plans grading and paving with crushed rock Revenue Rd.

Ore., Scio—Town Council soon to let contract improving streets in business district. About $10,000.

Ore., The Dalles—County to vote in November on $260,000 road bonds. Address County Clk., The Dalles.

Calif., Grass Valley—State Highway Comn. soon to let contract for road work. W. S. Caruthers, Engr., Div. No. 3, State Highway Comrs.

Calif., Los Angeles—City passed ordinances for improving streets. H. Hamlin, City Engr.

Calif., Oak Park—(Sacramento post office)—City Comrs. plan paving portion East Ave.

Calif., Placerville—City soon receives bids for paving Main St.

Ont., Windsor—County plans 100 mi. roads in North Essex. Edward J. O'Neil Reeve, Sandwich South, Supt. Constr.

B. C., Victoria—City plans improving Oak Bay Ave. About $12,000. J. H. Rust, Engr.

Bids in and Contracts Awarded

Mass., Reading—(Official)—City let contract highway to JAMES WATKINS, 10 Fern Ave., Reading. Noted Aug. 10.

Mass., Salem—City let contract paving, curbing and sidewalks to M. McDONOUGH, Swampscott.

R. I., Providence—No bids received for paving Olney Sq. Cmr. Pub. Wks. authorized work done by day labor.

Conn., Bristol—City let contract paving North Main St. to CONNECTICUT & RHODE ISLAND CO. About $2.10 sq.yd.

Conn., Winchester—Bd. Selectmen, Town Bldg., Winsted, let contract portion concrete or bituminous road on Main St. to WARREN BROS. CO., 142 Berkeley St. Noted July 6.

N. Y., Albany—City let contract paving and sewers in portion South Pearl St to CRAMMOND CONSTRUCTION CORPORATION, 806 Park Ave. About $40,000.

N. Y., Albany — (Official) — State Highway Comn., 55 Lancaster St., received bids Aug. 14 for construction and repairing highways in various counties as follows: Road No. 5614, Loudon-Crescent Rd., Part 2, Albany County, 0.10 mi.: Brown & Lowe Co., Schenectady, $1,544. Road No. 1451, Stella-New Ireland Rd., Broome County, 4.70 mi.: T. H. Gill Co., Binghamton, N. Y., $52,486; Woodruff Edgecomb, Eastbranch, N. Y., $56,206. Road No. 1414, Venice Center-Genoa Cayuga County, 5.45 mi.: Frank Malone, Syracuse, $72,209; Frank J. Foote, Nunda, $74,657. Road No. 1435, Solon-Gee Brook Rd., Part 1, Cortland County, 6.07 mi.: Michael O'Brien, Cortland, $73,747; Rossney Contracting Corporation, Buffalo, $73,873. Road No. 1439, Sidney-Masonville Rd., Delaware County, 6.51 mi.: Albany Construction Co., Albany, $92,554. Road No. 1446, South Newstead-Peters Corners Rd., Erie County, 0.91 mi.: No bids. Road No. 1445 East Aurora-Lancaster Rd., Part 2, Erie County, 3.54 mi.: William F. Felton, Buffalo $51,981. Road No. 924-A Wales Center-Wales Rd., Erie County, 6.03 mi.: William F. Felton, Buffalo, $62,120; Frank J. Foote, Nunda, $64,456; Federal Paving Corporation, New York, $66,318. Road No. 1411, Wadhams Mills-Whallonsburg Rd., Essex County, 4.95 mi.: No bids. Road No. 1376 Bull Run-Bleecker Rd., Fulton County, 2.80 mi.: No bids. Road No. 5523, Wells-Speculator Rd., Part 2, Hamilton County, 6.74 mi.: Albany Construction Co., Albany, $117,038; Hassom Paving Co., Worcester, $139,590. Road No. 1362 Vanhornesville-Starkville Rd., Herkimer County, 5.84 mi.: No bids. Road No. 5617 Watertown-Philadelphia Rd., Part 2, Jefferson County, 5.03 mi.: Pathfinder Construction Co., Fulton, $61,464; Joseph McCormick, East Providence, R. I., $66,758. Road No. 513, Amsterdam-Morris Center, Montgomery County, 2.49 mi.: No bids. Road No. 773, Wendellville-Lockport Rd., Part 2, Niagara County, 2.38 mi.: Cold Spring Construction Co., Buffalo, $25,442; Carlisle O. Landel, Tonawanda, $30,444. Road No. 1355, North Western-Boonville Rd., Part 1, Oneida County, 6.15 mi.: Albany Construction Co., Albany, $75,608. Road No. 1415, Chapin-Palmyra Rd., Part 1, Ontario County, 3.95 mi.: Chambers & Barnes, Rochester, $40,219; W. J. Semper, Watertown, $43,656. Road No. 1427, Fulton-Volney Rd., Part 1, Oswego County, 0.57 mi.: Samuel Bonn, Syracuse, $8,731; Pathfinder Construction Co., Inc., Fulton, $8,920; Ralph F. Kelly, Oswego, $9,111. Road No. 1421, Center Berlin-Petersburg Rd., Rensselaer County, 7.20 mi.: Lane Construction Corporation, Meriden, Conn., $91,571; Martin Murray & Co., Inc., Troy, $90,664; Albany Construction Co., Albany, $93,945. Road No. 1148, Suffern-Mt. Ivy Rd., Rockland County, 8.62 mi.: Samuel Beskin, Beacon, $71,930; Coe & Blanchard, Suffern, $72,980; John J. Guinan Contracting Co., New York, $74,171. Road No. 325, Center Rd.-Fayette Rd., Part 2, Seneca County, 2.75 mi.: Thomas F. Murray, Le Roy, $37,709. Road No. 1453, Vischers Ferry-Niskayuna Rd., Schenectady County, 1.95 mi.: J. J. Malloy, Schenectady, $19,330. Road No. 1399, Waterloo Village, Fayette St., Seneca County, 0.24 mi.: McMahon & Farrington, Waterloo, $3,162. Road No. 1078 Waverly-Lockwood Rd., Tioga County, 6 mi.: Lane Construction Corporation, Meriden, Conn., $68,043; Peter F. Connolly & Co., Horseheads, $69,739; Dana W. Robbins, Inc., N. Y. City, $69,410. Road No. 1433, Cortland-Groton Rd., Parts 3 and 4, Tompkins County, 5.86 mi.: Dana W. Robbins, New York, $86,956; T. H. Gill Co., Binghamton, $88,390; Bradley & McGreevey, Elmira, $87,871. Road No. 1417, Wallkill-Newburg Rd., Part 1, Ulster County, 3.12 mi.: John A. Jova, Inc., Newburgh, $35,867; Harper & Higginson, Inc., Newburgh, $56,776. Road No. 1436, Greenwich Village, Elm Ave., Main, Bridge and Eddy St., Washington County, 1.43 mi.: Keeseville Road Co., Inc., Keeseville, $62,961; John B. Dower, Ballston Spa, $63,659; Gifford Construction Co., Jamaica, $67,087. Noted Aug. 3.

N. Y., Buffalo—City let contract paving Halbert St. to GERMAN ROCK ASPHALT CO. About $18,346.

N. Y., Fulton—City let contract road on South 1st St. to PATHFINDER CONSTRUCTION CO., Fulton. About $17,600.

N. Y., New York—(Richmond)—(Official)—Borough let contract paving portion Decker Ave. to J. JOHNSON SONS, 455 Broadway, West New Brighton, $5,551. Noted Aug. 10.

N. Y., Syracuse—Bd. Contract and Supply let contract paving portion Robinson St. to J. B. BAKER, University Bldg. About $7,230. Noted June 22.

N. J., Bound Brook—(Official)—County received low bids for paving 8,000 sq.yd., brick, as follows: Ontonio Celentano, Trenton, $21,096; Hickey & Houghton, Inc., Somerville, $24,240; Louis J. Sieling, 171 Madison Ave., New York, N. Y., $26,800. Noted July 27.

N. J., Elizabeth—Bd. Pub. Wks. rejected bids for repaving Elizabeth Ave.

N. J., Lodi—City let contract improving streets to GARRITSON CONSTRUCTION CO., Lodi.

N. J., Newark—Bd. Freeholders, Essex County, soon to let contract for improving portion Belleville Turnpike. Address County Clk., Newark. Noted Aug. 3.

N. J., Passaic—City let contract macadamizing East Pierrepont Ave. and The Terrace to JANNARONE CONSTRUCTION CO. About $6,805.

Penn., Boyertown—City let contract paving and guttering various streets to J. B. TREXLER, 125 West Windsor St., Reading. About $25,000. Noted May 11.

Penn., Erie—City let contract paving Poplar St., asphalt, to JOHN McCORMICK & SON, Erie. About $1.80 per sq.ft.

Penn., Norristown—City let contract road repairs to AMBLER, DAVIES CO., Harrison Bldg., Philadelphia. About $9,500.

Streets and Roads (Continued)

Penn., Philadelphia—Bd. Pub. Wks. let contract to repave portion 7th St. to PHILADELPHIA CO., 1345 Arch St. About $23,000.

Penn., Philadelphia—City let contract paving portion Lycoming St. to MACK CONSTRUCTION CO., 20th and Sedgley Ave. About $15,200.

Penn., Philadelphia—City let contract repaving portion Orianna St. to PHILADELPHIA PAVING CO., 1345 Arch St. About $11,000.

Penn., Pittsburgh—City let contract improving streets to MATTHEW OTT & CO., 414 Warrington Ave. About $7,000.

Penn., Verona—City let contract sidewalks on Parker, Grand and Jones St. to ROSS & WATSON, Oakmont.

Penn., Washington—City let contract resurfacing Zollarsville Rd. to WILLIAM PICKETT & CO.

Md., Rockville—City let contract road to BROWN & CO., Gaskins, Washington, D. C. About $25,000.

Va., Gate City—County Comrs. let contract road between Gate City and Speers Ferry to CUMBERLAND CONSTRUCTION CO., Big Stone Gap, about $22,117; road between Cuma post office and Kermit to ALBERT BROS., Shawsville, about $10,209.

Ala., Ashville—City let contract 4-mi. road between Ashville and St. Clair Springs to PERRY WADE. About $7,000.

Ala., Evergreen—County let contract improving portion Evergreen-Castleberry Rd. to W. F. ALLEN, Montgomery. About $4,566. Noted July 13.

La., Amite City—City let contract main road north and south to W. H. MILLER, Baton Rouge; and 2 cross-roads to F. A. ALBEE, Natalbany, about $31,000.

Ky., Lexington—City rejected bids for improving Lexington Pike.

Ky., Williamstown—City let contract paving Main St. with asphalt to S. M. BILLITER. About $5,000. Noted May 18.

Ohio, Akron—C. F. Beck, Dir. Pub. Ser., let contract improving streets to CHARLES H. WATTERS. About $12,000.

Ohio, Ashtabula—City let contract for road between Ashtabula and Geneva to HART & KEMP, Elyria. About $143,710.

Ohio, Bellevue—A. B. Heal, Dir. Pub. Ser., let contract improving Kinney St. to CHRIST STOLTZ. Noted May 4.

Ohio, Berea—City let contract paving Center St. to WILLIAM DENNER, Berea.

Ohio, Celina—Mercer County let contract improving Rockford Rd. to WILLIAM BARTLING, Rockford.

Ohio, Findlay—County let contract paving Kear Rd. to D. B. KROUT & GILMER, Mt. Blanchard. About $10,000.

Ohio, Findlay—City let contract paving Baldwin Ave., brick, to H. HALL. About $6,600.

Ohio, Findlay—City let contract paving Beach Ave. to W. H. KING & SON, Chillicothe. Noted July 20.

Ohio, Findlay—City received low bid for paving East Sandusky St., from Johnson Construction Co., Chicago. About $14,646. U. K. Stringfellow, City Engr. Noted May 25.

Ohio, Findlay—City let contract paving number streets, asphalt, to JOHNSON CONSTRUCTION CO., at $1.60 per cu.yd.

Ohio, Lisbon—County let contract 6 mi. road, including culverts and bridges to SEIPLE & WOLFE. About $67,000.

Ohio, Marion—City let contract paving and grading Sargent and Pleasant St. to P. DRAKE.

Ohio, Medina—City let contract paving portion Smith Rd. to H. J. NEIPFOOT, Elyria. About $28,114.

Ohio, Newark—Bd. Control let contract paving and curbing 9th and Wyoming St. to FEDERAL ASPHALT CO., Hamilton.

Ohio, New Lexington—(Official)—City let contract improving portion Madison St. to BARTHLOW & SON, Logan. About $12,435. Noted July 6.

Ohio, Oberlin—City let contract Kipton Rd. to ELYRIA CONSTRUCTION CO., Elyria. About $25,000.

Ohio, Springfield—City let contract paving portion Fountain Ave. to M. J. HANNON. About $24,597.

Ohio, Tiffin—City rejected bids for improving portion Washington St. L. O. Runkle, City Engr. Noted Aug. 3.

Ohio, Waynesfield—City let contract paving Westminister St. to E. C. LEWIS & CO., Lima. About $22,250. Noted June 22.

Ohio, Youngstown—City let contract paving Calvin St. to WILSON, TIBERION & ROBINSON. About $5,000.

Ohio, Youngstown—City let contract grading portion Wirt St. to JAMES COMISKY, 370 Cluster Ave.

Ind., Bloomington—City let contract paving East College St. to JOSEPH CAMPBELL.

Ind., Greenfield—County let contracts roads to GEORGE HOPPES, Vandenbark and Steel Rd., about $8,591, and Loudenback Rd., about $6,998; T. H. NEW, Jackson Rd., about $7,945.

Ind., Greenfield—City let contract roads in Jackson Township to GEORGE HOPPES. About $15,588.

Ind., Indianapolis—City let contract for roads as follows: Peake Rd. to ERNEST BEROS & CO., about $23,330; Tilly Rd. to EWING SHIELDS, Greencastle, about $31,604; Snyder Rd., ALLEN HURST & SWEET, Greencastle, about $10,409.

Ind., Indianapolis—City received bids for paving Washington Blvd. from Republican Construction Co., $4.17 lin.ft. asphalt, $3.97 lin.ft. bituminous concrete; American Construction Co., $4.50 lin.ft. asphalt, $4.20 lin.ft. bituminous concrete.

Ind., North Manchester—City let contract paving streets with asphaltic concrete to NORTHERN INDIANA CONSTRUCTION CO. About $28,000. J. W. Haverly, City Engr.

Ind., Union City—City let contract paving East Walnut St. to J. L. TEEGARDEN, Union City.

Ind., Winchester—County Comrs. let road contracts as follows: Bascom brick and gravel road, Washington Township, to JOHNSON & DULL, $21,890; Lepp Rd., Greensford Township, to WILLIAM CHAMNESS, $4,250; Shade Rd., Greensfork Township, to HANG ILIFF, $4,025; Bennett Rd., West River Township, to THORNBURG, PETRO & ROSS, $5,110; Keever Rd., Monroe Township, to D. W. GROVE, $6,985; Dull Rd., Franklin Township, to A. HESTON, $8,791; Williams Rd., Franklin Township, to A. JOHNSON, $14,317.

Mich., Battle Creek—Rd. Comrs. let contract improving roads to CARPENTER CONSTRUCTION CO., Columbus, Ohio. About $9,601.

Mich., Lake Odessa—City let contract paving Main St. to A. H. PRANGE, Grand Rapids. About $15,000.

Mich., Monroe—County let contract improving Dixie Highway to CENTRAL STATES CONSTRUCTION CO., Columbus, Ohio. About $199,000.

Mich., Pontiac—City let contract paving Dawson's Alley to HARRY VANDERVEEN, Grand Rapids.

Mich., Pontiac—County let contract improving Woodward Rd. to R. D. BAKER, 1454 Penobscot Bldg., Detroit.

Ill., Berwyn—City let contract paving portion Wesley Ave. to R. F. CONWAY CO., 133 West Washington St., Chicago.

Ill., Edwardsville—City let contract paving Springfield Rd. to ALBERT FAHRIG, Park and Fillmore St. About $33,000.

Ill., Hoopeston—City let contract paving East Maple St. to H. C. FINDLEY, Hoopeston. Noted May 25.

Ill., Lake Forest—City let contract paving portion Westeman Ave. to J. McGARRY & CO., 189 West Madison St., Chicago.

Ill., Marion—Bd. Local Improvts. let contract paving Dist. No. 10 to MEYER & THOMAS CONSTRUCTION CO., East St. Louis. About $46,715.

Ill., Murphysboro—City let contract paving Dist. No. 10 to MYER & THEMAS. About $46,715.

Ill., Oak Park—City let contract paving Scoville Ave. to COMMONWEALTH IMPROVEMENT CO., 179 West Washington St., Chicago. About $19,405.

Ill., Ottawa—County let contract State Aid Rd. to R. E. BALL & CO., Ottawa. About $9,272.

Ill., Peoria—County let contract macadamizing Farmington Rd. to BANNEWOLT CONSTRUCTION CO.

Wis., Appleton—Bd. Pub. Wks. let contract paving Alton St. to A. C. SIMPSON. About 39½c. per sq.yd.

Wis., Monroe—City received low bid from T. W. Quinn, Madison, for 4,583 sq.yd. paving. About $4,583.

Wis., Neenah—City let contract concrete highway to LARSEN CONSTRUCTION CO. About $6,600.

Wis., New Glarus—City let contract paving village and county road to M. & O. CONSTRUCTION CO., Madison. About $8,350 and $6,960.

Wis., Prairie Du Sac—City let contract paving 5,000 sq.yd. vitrified brick to SWEENEY BROS., Reedsburg. About $1.56 sq.yd.

Iowa, Des Moines—State let contract paving capital grounds to F. F. BALZER, Des Moines. About $10,000.

Iowa, Dubuque—City let contract paving Wall, Lexington St. and Wisconsin Ave. to JAMES LEE CONTRACTING CO., Dubuque. About $16,471.

Iowa, Sioux City—County let contract 20,000 cu.yd. earthwork on county road to R. L. WARD, Correctionville. About 21c. cu.yd.

Minn., Grand Rapids—City let contract paving portion Lehand Ave. to J. S. LOFBERG & SON. About $4,609.

Kan., Galena—City let contract 16 blocks alley paving with concrete to JONES & ANDERSON, 1015 West 7th St., Joplin, Mo. About $1.21½ per yd.

Neb., Shubert—City let contract paving to WATTS & AMMERMAN, Concordia, Kan. About $1.43 per sq.yd.

Mont., Billings—(Official)—City let contract 25,000 sq.yd. paving to WARREN CONSTRUCTION CO., Portland, Ore. Noted July 6.

Mo., Independence—City let contract grading and macadamizing Frick Rd. to KANSAS CRUSHER CO., 501 East Armour Blvd., Kansas City. About $9,757.

Mo., Joplin—City let contract paving Wall St., rock asphalt, to SHELBY DOWNARD. About $12,660.

Mo., Kansas City—Bd. Pub. Wks. let contract for street improvements as follows: Portion Jackson Ave. to CHARLES GIDINSKY, 3419 Kenwood, about $6,434; South Roanoke Blvd. to F. P. McCORMICK, 2308 Penn St., about $21,063.

Mo., St. Joseph—Buchanan County let contract grading 14 mi. road to M. COSTELLO, 1500 South 22nd St. About $22,845. Noted July 22.

Tex., Dallas—City Comn. let contract paving portion Worth St. and Lindell Ave. to VIBROLITHIC CO.

Tex., Ft. Worth—City let contract paving portion Grainger St. to GENERAL CONSTRUCTION CO., also plan paving portion of Travis Ave. M. P. Harwood, City Clk.

Tex., Houston—City let contract resurfacing Houston Ave. to FINLEY METHOD CO. About $6,922.

Utah, Salt Lake City—(Official)—City let contract paving 21st South St. concrete, to J. W. MELLEN, Richards St., Salt Lake City. About $30,336; and Herbert and Michigan Ave., bitulithic, to P. J. MORAN, Salt Lake City. About $15,938. Noted July 20.

Wash., Prosser—County let contract for rein.-con. pavement to O. M. PATTON.

Wash., Ritzville—City let contract paving Railroad Ave., including 1,700 ft. concrete curb, 600 yd. concrete walk and 12-in. sewer to W. J. SMITH, Ritzville. About $7,046.

Calif., Berkeley—City let contract improving Tamalpais, Shasta and Tallac St. to JOHNSON, SHEA & CO. About $2.50 per ft.

Calif., Martinez—City let contract improving Main St. to M. SULLIVAN.

Calif., Oakland—City let contract improving Thompson St. to HUTCHINSON CO., 13th and Franklin St.

Calif., Oakland—City let contract improving Laurel Ave. to RANSOME-CRUMMEY CO., First National Bank Bldg., Oakland. Noted May 11.

Calif., San Francisco—City let contract improving Railroad Ave. to EATON & SMITH. About $34,000.

INDUSTRIAL WORKS

Proposed Work

Mass., Fall River—Fall River Iron Works Co., Ferry St., plans 6-story warehouse.

Mass., Gloucester—Ipswich Mills, Ipswich, plans factory at Gloucester.

Mass., Somerville—Industrial School for Boys, Tufts St., making plans for 1-story machine shop. About $10,000. W. T. Littlefield, 9 Hamilton Pl., Boston, Arch.

Conn., Bridgeport—Birdsey-Somers Co. plans factory and storehouse on Hewitt St.

Conn., New Haven—Forsyth Dyeing Co., West Fitch St., plans 2-story, 80x160-ft. brick addition.

Conn., Norwalk—M. N. Mayehoff & Co., Merwin St., making plans for 3-story addition. Owens & Sisco, Continental Bldg., Baltimore, Md., Arch. Noted June 22.

Conn., Stratford—Rhode Island Worsted Co. making plans for 1-story factory. About $200,000. C. A. Tinker and R. H. Butler, 318 Main St., Springfield, Mass., Arch.

N. Y., New York—(Bronx)—J. Gerosa plans 5-story factory at 3rd Ave. and 134th St. About $80,000. A. E. Davis, Arch.

N. Y., New York—(Brooklyn)—Louis Allen Abramson, Arch., 220 5th Ave., Manhattan, making plans for 5-story, 80x100-ft. addition to factory. About $20,000.

N. Y., New York—(Manhattan)—J. W. Ahearn made plans for two 16-story factories at 257 West 43d St. and 332 4th Ave. About $800,000. R. E. Moss, 126 Liberty St., Arch.

N. Y., New York—(Queens)—Fox Film Co., 126 West 46th St., Manhattan, made plans for factory on Astoria Ave., Corona, L. I. About $70,000.

N. Y., New York—(Queens)—Heinrich Franck Sons, Inc., Flushing, plans factory. About $500,000.

N. Y., New York—(Queens)—N. Nehrbauer, Jr., 580 9th Ave., plans 75x100-ft. factory and loft building. F. Braun, 585 9th Ave., Arch.

N. Y., New York—(Queens)—New York-Queens Electric Lighting and Power Co. made plans for garage and stock house on Flushing Ave., Long Island City. About $25,000.

N. Y., Peekskill—Southard-Robertson Co. making plans for 2-story, 100x115-ft. factory. About $40,000. B. S. King & Sons, Inc., 103 Park Ave., New York, Arch.

N. Y., Yonkers—Scott Elevator Co. plans factory on Saw Mill River Rd. About $250,000. D. M. Hopping, 26 South Broadway, interested.

N. J., Camden—Joseph Campbell Co. making plans for 1-story, 92x246-ft. rein.-con. addition to factory. Ballinger & Perrot, 17th and Arch St., Philadelphia, Arch.

Industrial Works (Continued)

N. J., Jersey City—International Elevator Co., 15th St., Hoboken, plans plant at Jersey City.

N. J., Newark—Morisrite Co. made plans for factory on Bloomfield St. About $20,000.

N. J., Newark—William Yeskel plans 2-story brick garage and storage building at 135 Lillie St., about $50,000. M. J. Nadel, Arch.

N. J., Paterson—Peerless Plush Co. making plans for 2-story, 50x100-ft. factory. W. Kidd, Jr., 95 Liberty St., New York, Arch.

Penn., Chester—Consumers' Ice and Coal Co. plans storage building of 10,000 tons capacity.

Penn., Erie—American Brakeshoe Co. plans plant. About $150,000.

Penn., Manheim—United States Asbestos Co. making plans for 100x200-ft. warehouse. C. I. Hill, Fehl Bldg., Lancaster, interested.

Penn., Oil City—American Steel Foundries Co. plans 1-story, 85x100-ft. addition.

Penn., Philadelphia—Albra Clem Elevator Co. plans addition. J. F. Mechling, 7th St. and Glenwood Ave., Pres.

Penn., Pittsburgh—T. and W. Glue plans warehouse and auto storage building at Ravenna St. and Yale Pl. About $100,000.

Penn., Pittsburgh—R. M. Walker Co. plans factory on Kelly St.

Penn., Red Lion—C. S. La Motte making plans for 3-story, 40x90-ft. brick factory.

Penn., Womelsdorf—Reading Underwear Co., Reading, plans 2-story, 45x150-ft. factory at Womelsdorf.

Md., Baltimore—Swindell Bros., Bayard and Russell St., plans 3-story factory. J. Freund, 11 East Lexington St., Arch.

Va., Danville—N. Kalk making plans for 1-story, 50x152-ft. abattoir. About $15,000.

Va., Winchester—C. L. Robinson Ice and Cold Storage Co. plans 6-story addition to warehouse.

W. Va., Huntington—Fire Proof Garage Co. plans 2-story, 60x200-ft. rein.-con. garage.

W. Va., Huntington—Ohio Valley Alkali Co. of Cincinnati plans plant.

W. Va., Moundsville—Fostoria Glass Co. making plans for 4-story addition.

N. C., Asheville—Pepsi-Cola Bottling Co. plans plant. About $12,000.

N. C., Bynum—J. M. Odell Manufacturing Co. plans to rebuild cotton yard mills.

S. C., Ft. Mill—Ft. Mills Manufacturing Co. plans addition. About $250,000.

Ga., Waycross—C. L. Brooks Engineering Co., Moultrie, Ga., interested in organization of company to build packing plant at Waycross. About $40,000.

Fla., Jacksonville—Mitchell Estate plans garage at Julia and Adams St. About $25,000. C. D. Rinehart, Executor.

Fla., Jacksonville—Southern Cattle Co. plans abattoir. About $50,000.

Fla., Miami—Tropical Fruit Conserving Co. plans 125x160-ft. plant. J. Petersen, interested.

Ala., Huntsville—Abingdon Cotton Mills making plans for addition. About $50,000.

La., Lake Charles—Houston Packing Co., Houston, Tex., plans warehouse at Lake Charles. About $10,000.

La., Lake Charles—McNary Lumber Co. plans to rebuild mill. About $300,000.

La., McNary—McNary Lumber Co. plans plant. About $200,000.

Tenn., Johnson City—Leon-Ferrenbach Silk Co., Wilkes-Barre, Penn., plans at Johnson City. About $25,000.

Ky., Lexington—Lexington Bonded Storage and Warehouse Co. plans 2 warehouses.

Ky., Louisville—W. A. Thomson made plans for 2-story garage. About $50,000. J. J. Gaffney, 437 South 2d St., Arch.

Ohio, Akron—Babcock & Wilcox Co. plans 2 factories.

Ohio, Akron—Bridgewater Machine Co. plans factory, about $20,000.

Ohio, Ashtabula—Ashtabula Hide and Leather Co. plans 3-story, 60x75-ft. addition.

Ohio, Bucyrus—Ohio Stock Yards Co. plan stock yards.

Ohio, Cincinnati—Carlton Machine Tool Co. plans plant on Hopper St.

Ohio, Cincinnati—E. M. Kalim granted permit for factory at 1040 Gilbert Ave. About $11,000.

Ohio, Cincinnati—L. Plogsted, Jr., 2909 Colerain Ave., plans 2-story, 24x60-ft. addition to auto repair shop. About $12,000.

Ohio, Cincinnati—Union Distilling Co. making plans for plant. E. Baldwin, 607 Walnut St., Arch.

Ohio, Cleveland—American Mirror and Glass Co., 2403 Superior Ave., plans 4-story warehouse. About $24,000.

Ohio, Cleveland—Cleveland Cadillac Co., Euclid Ave. and East 20th St., plans 3-story automobile building at East 30th and Chester St. About $225,000.

Ohio, Cleveland—Ford Motor Co., 11610 Euclid Ave., made plans for 2-story, 100x173-ft. brick and concrete sales and service station at 6500 Detroit Ave. About $110,000. Noted June 1.

Ohio, Cleveland—A. S. Gilman Printing Co. made plans for 3-story rein.-con. plant at 3d St. and Lakeside Ave. About $200,000. Forest City Engineering Co., Hippodrome Bldg., Arch.

Ohio, Cleveland—Lincoln Fireproof Storage Co. plans 6-story warehouse on Detroit Ave., N. W. About $85,000.

Ohio, Cleveland—Lino Paint Co., 16908 Waterloo Rd., plans addition. J. D. Climo, Pres.

Ohio, Cleveland—Maxwell Sales Corporation plans garage and service station at 1711 East 27th St.

Ohio, Cleveland—C. C. Parsons & Co., 8006 Carnegie Ave., plans 2-story service station. About $50,000.

Ohio, Cleveland—Singer Sewing Machine Co., Lennox Bldg., plans plant.

Ohio, Cleveland—Westinghouse Electric and Manufacturing Co. plans storage house on West 58th St. About $10,000.

Ohio, Dayton—Mead Pulp and Paper Co. making plans for addition. About $38,000. F. H. Smith, Consult. Engr.

Ohio, East Liverpool—Golding Sons Co. made plans for 84x240-ft. factory. W. C. Owen & Co., Leader Bldg., Cleveland, Arch. J. M. Manor, Mgr.

Ohio, Eaton—J. E. Parker Co. plans warehouse and cold-storage plant.

Ohio, Junction City—Great Western Sewer Pipe Co. plans plant. About $150,000.

Ohio, Marion—Power Manufacturing Co. plans plant at Marion.

Ohio, Martins Ferry—City plans ice plant. T. McPherson, City Clk.

Ohio, New Boston—(Portsmouth post office)—Whitaker Glessener Co., Wheeling, W. Va., making plans for blast furnace at New Boston. About $1,000,000. J. Kennedy, Bessemer Bldg., Pittsburgh, Penn., Engr.

Ohio, Springfield—William Bayley Co. plans addition on North West St.

Ohio, Youngstown—Brier Hill Steel Co. plans two 100-ton openhearth furnaces. About $700,000.

Ohio, Youngstown—Distilled Water Ice Co. plans expenditure of $300,000 for 2 additional plants.

Ind., Bluffton—Great Northern Glove Co. plans 2-story factory at Market and Scott St.

Ind., Connersville—Lexington-Howard Motor Co. plans 1-story, 125x200-ft. addition.

Ind., Evansville—Triangle Overall Co., 18 Vine St., made plans for addition. About $12,000. H. E. Boyle & Co., Arch. Noted July 6.

Ind., Ft. Wayne—Purity Products Co. plans plant.

Ind., Indianapolis—F. Schmidt, 3106 Capitol Ave., made plans for garage. About $40,000. F. B. Hunter, State Life Bldg., Arch.

Ind., Lebanon—P. Shahan & Son plan grain elevator.

Mich., Detroit—W. Fiedler & Sons granted permit for 2-story factory on St. Aubin St. About $10,000.

Mich., Grand Haven—Alter Motor Car Co., Plymouth, plans 60x400-ft. factory at Grand Haven.

Mich., Port Huron—Grand Trunk Ry. approved $750,000 bond issue for car repair shops. H. R. Safford, Montreal, Que., Ch. Engr. Noted Oct. 28.

Mich., Sanford—Meridian Line Chemical Co. retained Howard M. Du Bois, Consult. Engr. make plans for building. About $200,000.

Ill., Chicago—Berkson Bros., 1446 Blue Island Ave., making plans for 2-story, 35x50-ft. warehouse. About $10,000. A. Epstein, 1118 West 35th St., Arch.

Ill., Chicago—Pyle National Electric Headlight Co., 900 South Michigan St., plans plant. About $250,000.

Ill., Chicago—Scotten & Snydacker plans warehouse on Canal St.

Ill., Quincy—American Strawboard Co. plans additions, about $350,000.

Wis., Eau Claire—Eau Claire Creamery Co. making plans for 2-story creamery. A. E. Reilly, Frawley Bldg., Arch.

Wis., Grand Rapids—Red Cedar Manufacturing Co. plans 2-story, 40x120-ft. factory on South 9th St., about $10,000.

Wis., Madison—James Evans plans 2-story, 66x198-ft. garage and machine shop at Henry and Dayton St.

Wis., Milwaukee—Wisconsin Telephone Co. making plans for 2-story warehouse. A. C. Eschweiler, Goldsmith Bldg., Arch.

Wis., Sheboygan Falls—Falls Machine Corporation plans addition.

Wis., Stevens Point—Eureka Grave Marker Association plans 2-story, 57x75-ft. plant. About $15,000.

Iowa, Des Moines—Ford Motor Co., Detroit, making plans for 6-story, 200x466-ft. assembling plant at 18th St. and Grand Ave.

Minn., Duluth—Bridgeman—Russell Co. plans 7-story factory at 11th Ave., W., and Michigan St.

Minn., St. Paul—Cement Products Exhibition Co., 208 South La Salle St., Chicago, plans factory at St. Paul. About $50,000.

Minn., St. Paul—Northern Pacific Ry. plans expenditure of $2,000,000 for shop extensions at St. Paul. W. L. Darling, St. Paul, Ch. Engr.

Minn., Winona—Chicago & Northwestern Ry. plans enlarging shop yards in West End. About $10,000. W. H. Finlet, Jackson Blvd. and Franklin St., Chicago, Ch. Engr.

Neb., Lodgepole—Farmers Co-Operative Elevator Co. plans elevator, 25,000 bu.

N. D., Fargo—Union Transfer Co. making plans for 3-story warehouse at 11th St. and 2d Ave., N. About $75,000.

Wyo., Eaton—Mutual Creamery, Salt Lake City, Utah, plans creamery at Eaton.

Mont., Billings—Farmers Exchange plans warehouse. About $12,000.

Mont., Butte—N. O. Nelson Manufacturing Co., 10th and Chestnut St., St. Louis, made plans for warehouse between Utah and Arizona St. About $10,000. J. Wellington Smith, Arch. Noted Aug. 10.

Mo., Joplin—General Explosives Co. plans factory at Joplin. About $50,000.

Mo., Moberly—Moberly Artificial Ice Co. plans warehouse.

Mo., St. Louis—Emerson Electric Manufacturing Co. making plans, for 7-story building. About $300,000. T. S. Taylor, Arch.

Mo., St. Louis—Sylvester Realty Co. plans 2-story factory at 17 Russell Ave. to be leased by Claes-Lehubeuter Manufacturing Co. About $20,000.

Ark., Gurdon—Gurdon Electric Co. plans ice plant.

Ark., Lewisville—Hanson Lumber Co. plans factory.

Okla., Enid—Swift & Co., Union Stock Yards, Chicago, plans addition to packing plant at Enid.

Okla., Okmulgee—Lindsey Ice Cream Co. plans refrigerating plant.

Idaho, Cottonwood—Cottonwood Milling Co. plans mill. About $25,000. J. F. Jenny, Pres.

Idaho, Sandpoint—Western Cedar Pole Preserves Co., Spokane, Wash., plans creosoting plant at Sandpoint. About $25,000.

Utah, Laketown—Mutual Creamery, Salt Lake City, plans creamery at Laketown.

Utah, Randolph—Mutual Creamery, Salt Lake City, plans creamery at Randolph.

Ariz., Canoa—(Tubac post office)—Agricultural Products Co., subsidiary of International Rubber Co., plans plant. About $1,000,000.

Calif., Alameda—Union Iron Works, San Francisco, granted permit for plant at Alameda. About $75,000. Noted Feb. 10.

Calif., Buttonwillow—F. W. Cowden and O. V. Crisp, Oxnard, plan beet sugar factory at Buttonwillow.

N. S., Sydney—Atlantic Milling Co. plans flour mill. About $60,000. J. W. Smith, Mgr.

Ont., Teeswater—Toronto Plaster Co. made plans for factory. About $50,000.

Man., Winnipeg—D. Balcovske making plans for abattoir. About $65,000. A. J. Wills, 204 Sterling Bank Bldg., Arch.

Bids In and Contracts Awarded

Mass., Boston—(Allston)—Packard Motor Car Co., 1089 Commonwealth Ave., let contract garage to STONE & WEBSTER ENGINEERING CORPORATION, 147 Milk St., Boston. About $150,000.

Mass., Brockton—Brockton Cold Storage and Warehouse Co. let contract cold-storage plant to G. HOWARD & SONS CO., 633 Warren Ave.

Mass., Cambridge—E. Flentje, 1643 Cambridge St., let contract 2-story, 52x60-ft. factory to WILSON & TOMLINSON, 220 Devon St., Boston.

Mass., Danvers—City let contract storehouse and service building to C. S. CUNNINGHAM & SONS CO., 101 Tremont St., Boston, $30,133. Noted Aug. 10.

Mass., Fall River—American Thread Co., Martine and Kerr St., let contract 2-story, 116x200-ft. addition to McNALLY CONSTRUCTION CO., 84 North Main St. About $60,000.

Mass., Fall River—U. S. Bobbins and Shuttle Co. let contract 3-story addition to PULESTON & McDOUGALL, Bay St., Fall River. About $60,000.

Mass., New Bedford—Rotch Mills let contract two 1-story, 80x175-ft. and 30x75-ft. additions to F. HILL SMITH, Detroit, Mich. Noted Aug. 10.

Mass., New Bedford—Sharp Manufacturing Co. let contract 2-story, 137x307-ft. mill to J. J. PRINDIVILLE CO., South Framingham. About $350,000.

Mass., Pittsfield—Kenney Manufacturing Co. let contract 2-story factory to BECKWITH & PIKE. About $80,000. Noted June 15.

Mass., Quincy—Tubular Rivet and Stud Co., 87 Lincoln St., Boston, let contract 50x100-ft. addition to C. E. CURRIER CO., 110 Summer St., Boston.

Mass., Worcester—Linehan—Conover Co. let contract 6-story addition to L. ROCHEFORD & SON, Worcester.

Mass., Worcester—United Wholesale Grocery Co. let contract 4-story warehouse on Grafton St. to NORE & YUTAN CO., Worcester, about $30,000. Noted May 4.

Mass., Worcester—Worcester Cold Storage and Warehouse Co. let contract 4-story, 60x77-ft. addition to E. J. CROSS, Worcester. Noted Aug. 3.

Industrial Works (Continued)

R. I., East Providence—Mexican Petroleum Corporation let contract oil distributing plant to J. McCORMICK, 315 Taunton Ave. About $100,000.

Conn., Bristol—New Departure Manufacturing Co. let contract 2-story, 75x222-ft. factory to TURNER CONSTRUCTION CO., 45 Milk St., Boston. Noted Aug. 3.

N. Y., Amsterdam—(Official)—Chalmers Knitting Co. let contract 8-story, 62x350-ft. rein.-con. factory to TURNER CONSTRUCTION CO., 11 Broadway, New York. Noted July 6.

N. Y., Buffalo—Acme Pattern and Machinery Co., Inc., let contract 2-story, 100x176-ft. factory to H. P. KEHR CO., INC., 2432 Fillmore Ave. About $50,000. Noted Aug. 3.

N. Y., Clifton—Louis De Jonge Co. let contract 7-story rein.-con. factory to AMERICAN CONCRETE STEEL CO., Newark, N. J. About $500,000. Noted June 29.

N. Y., New York—(Brooklyn)—Adriance Machine Works let contract 10-story, 150x180-ft. factory to J. W. FERGUSON CO., United Bank Bldg., Paterson, N. J. About $200,000.

N. Y., New York—(Brooklyn)—(Official)—Valentine & Co. let contract 6-story, 60x90-ft. factory at Manhattan and Skillman Ave. to TURNER CONSTRUCTION CO., 11 Broadway, Manhattan.

N. Y., New York—(Manhattan)—Daggett & Ramsdell let contract 8-story, 50x131-ft. factory to TURNER CONSTRUCTION CO., 11 Broadway.

N. Y., New York—(Manhattan)—Kennedy Estate let contract 6-story warehouse and store building to TURNER CONSTRUCTION CO., 11 Broadway. About $60,000. Noted Mar. 30.

N. Y., New York—(Manhattan)—Dept. Pub. Charities received lowest bid for 9-story storage building on Blackwells Island from Snare & Triest Co., Woolworth Bldg. About $400,000. Noted July 13.

N. Y., New York—(Richmond)—Louis De Jonge & Co., 446 Richmond Turnpike, Tompkinsville, let contract factory to AMERICAN CONCRETE STEEL CO., Essex Bldg., Newark. About $45,000. Noted Oct. 14.

N. J., Paulsboro—(Official)—Vacuum Oil Co. let contract 2-story, 156x206-ft. factory at Bramell Point to TURNER CONSTRUCTION CO., 11 Broadway, New York.

N. J., Pleasantville—(Official)—W. F. Taubel & Son, Riverside, let contract 50x250-ft. brick hosiery mill to H. B. MILLER, Edgewater Park, $40,000.

N. J., Vineland—D. H. Chandler let contract 3-story, 32x130-ft. factory to G. M. SCHAIBLE.

Penn., Arcadia—International Coupler Co. received low bid for 1-story, 50x175-ft. factory from Faber Engineering and Construction Co., Bessemer Bldg. About $20,000.

Penn., Coatsville—Midvale Steel and Ordnance Co. let contract addition to Worth Bros. plant to W. B. POLLOCK CO., Youngstown.

Penn., Derry—Pennsylvania R.R. let contract engine house to C. PETERSON CO., 303 Keystone Bldg., Pittsburgh. About $50,000.

Penn., Fullerton—McBride Bros. let contract 2-story, 72x178-ft. addition to G. H. HARDNER, Lentz Bldg., Allentown. About $35,000. Noted May 25.

Penn., Harrisburg—Jennings Manufacturing Co. let contract 3-story, 52x125-ft. factory to CRAWFORD & STEPHENSON. About $40,000.

Penn., Millvale—C. E. Murphy & Son, 516 Federal St., N. S., Pittsburgh, low bidder for 2-story, 48x100-ft. laundry for Union Laundry Co. About $10,000. Noted Apr. 13.

Penn., Philadelphia—Atlantic Refining Co. let contract service station to METZGERR & FISHER, Denckle Bldg. About $15,000.

Penn., Philadelphia—Surpass Leather Co. let contract addition to warehouse to G. KESSLER CONSTRUCTION CO., 931 Drexel Bldg. About $14,000. Noted Aug. 3.

Penn., Philadelphia—Thoraton, Fuller Co., 2041 Market St., let contract 1-story storage building to J. DILLON, 602 Cherry St. About $18,000.

Penn., Pittsburgh—(Official)—Crucible Steel Co. of America let contract addition to crescent works to FABER ENGINEERING AND CONSTRUCTION CO., Bessemer Bldg.

Penn., Pittsburgh—Crucible Steel Co. of America let contract warehouse and shop building at Ridge Ave. and Reedsdale St. let to PITTSBURG BRIDGE AND IRON WORKS, Farmers' Bank Bldg. About $20,000. Noted May 18.

Penn., Pittsburgh—S. Solof, 2332 Sidney St., let contract addition to warehouse to C. W. HOUGGY, 6022 Station St. About $12,000. Noted July 27.

Penn., Pittsburgh—(Official)—Standard Sanitary Manufacturing Co. let contract enameling building to FABER ENGINEERING AND CONSTRUCTION CO., Bessemer Bldg., $35,000.

Penn., Reading—Bard Hardware Co., 800 Penn St., let contract 3-story, 60x60-ft. warehouse to H. J. RANDENBUSH, 1324 Perkiomen Ave.

Penn., Reading—A. Wilhelm Co. let contract 1-story, 60x400-ft. addition to C. H. SCHLEGEL, 2224 Perkiomen Ave.

Del., Wilmington—Delmarvin Baking Co., Inc., East 4th St., let contract 3-story, 50x101-ft. bakery to J. STANNARD, 2nd and Brown St. About $25,000. Noted June 22.

Md., Baltimore—H. B. Davis Co. let contract 1-story addition to C. E. STUBBS, 548 Equitable Bldg. About $18,000. Noted June 29.

Md., Baltimore—Baltimore Copper Smelting and Rolling Co., 4th Ave. and 5th St., let contract addition to H. G. KLINK, 420 Sheridan Ave., Whiting, Ind.

D. C., Washington—Mt. Vernon Seminary let contract laundry and garage to BOYLE-ROBERTSON CONSTRUCTION CO., Evans Bldg., Washington.

Va., Roanoke—American Viscose Co. let contract plant to IRWIN & LEIGHTON, 125 North 12th St., Philadelphia. About $500,000.

Ky., Louisville—Liggett & Meyers Tobacco Co., St. Louis, Mo., let contract 3-story warehouse at Louisville to C. A. KOERNER & CO., 511 Walker Bldg., Louisville. About $30,000.

Ohio, Canton—(Official)—Wheeling & Lake Erie R.R. let contract warehouses to TURNER CONSTRUCTION CO., 11 Broadway, New York. W. L. Rohbock, Electric Bldg., Cleveland, Ch. Engr.

Ohio, Cuyahoga Falls—Turner-Vaughn-Taylor Co. let contract factory to SAMUEL AUSTIN & SON CO., 14230 Euclid Ave., Cleveland, about $20,000.

Ohio, Middlebranch—Diamond Portland Cement Co. let contract addition to R. N. KIRK, Canton, about $200,000.

Ohio, Tippecanoe City—Strickler Bros. let contract 2-story addition to canning plant to TIMMER BROS., Tippecanoe City.

Ind., Evansville—Hercules Buggy Co. let contract 3-story, 80x120-ft. addition to CADDWELL, MARSHALL CO., 421 Upper 1st St., Evansville.

Ind., Evansville—A. L. Maxwell Co. let contract 3-story garage at 2d and Vine St. to M. J. HOFFMAN CONSTRUCTION CO. About $30,000.

Ind., Ft. Wayne—General Electric Co. let contract 2 buildings to INDIANA ENGINEERING CO. Noted Mar. 9.

Ind., Indianapolis—R. H. Hassler Corporation, 1535 Naomi St., let contract plant to SAMUEL AUSTIN & SON CO., 14230 Euclid Ave., Cleveland, about $45,000. Noted Aug. 3.

Ind., Indianapolis—Wadley Co. let contract 3-story, 100x100-ft. factory to J. A. SCHUMACHER CO., 820 St. Clair St. Noted June 22.

Ind., Union City—Union City Body Works let contract 60x200-ft. factory to CHARLES SANDERS, Portland, Ind.

Mich., Grand Rapids—Brown & Sehler Co. let contract factory to C. HOERTZ & SON. About $40,000. Noted June 8.

Mich., Jackson—Jackson Welding Co. let contract factory to SAMUEL AUSTIN & SON CO., 14230 Euclid Ave., Cleveland, Ohio, about $75,000.

Mich., Kalamazoo—Acme Universal Joint Co. let contract factory to O. FLOYD MILLER. About $15,000. Noted July 20.

Mich., Menominee—Michigan Electrochemical Co. let contract warehouse to J. SALEN. Noted July 13.

Mich., Niles—Towar Cotton Mill, Inc., let contract 1-story, 70x260-ft. mill to BAKER & SNYDER CONSTRUCTION CO.

Mich., Petoskey—Michigan Tanning and Extract Co., Grand Rapids, let contract building to FEATHER & WINGATE.

Ill., Cairo—Illinois Central R.R. let contract 1-story, 42x130-ft. warehouse to MURPHY CONSTRUCTION CO., East St. Louis. About $20,000.

Ill., Chicago—Midland Metal Co. let contract 1-story brick factory on Campbell Ave,. S., to WIEBOLDT CONSTRUCTION CO., about $12,000.

Ill., Chicago—Mitchell Auto Service Station, 25 North Michigan Ave., let contract 3-story brick service station on South Wabash Ave. to E. W. SPROUL CO., 1120 West 35th St. About $50,000.

Ill., Chicago—A. G. Spaulding, 28 South Wabash Ave., let contract warehouse to R. F. WILSON & CO., 154 West Randolph St. About $80,000.

Ill., Rock Island—Tri-City Railway Co. let contract for 1- and 2-story, 160x300-ft. rein.-con. shop to CENTRAL ENGINEERING CO., Davenport, Iowa. About $80,000. J. F. Porter, Davenport, Iowa, Pres. Noted Mar. 23.

Ill., Springfield—Illinois Watch Co. let contract addition to W. J. McALPINE, Springfield. About $15,000.

Wis., Milwaukee—General Welding and Manufacturing Co. let contract plant on Oregon St. to WILKE BROS. Noted June 29.

Iowa, Sioux City—Anderson Bros. let contract 80x120-ft. warehouse to J. HORN. About $25,000.

Ill., Chicago—A. G. Spalding & Bros., South La Salle and 54th St., let contract warehouse to R. F. NELSON CO.

Minn., Cokato—Cokato Creamery Association let contract plant to G. SWANSON, Cokato.

Minn., Duluth—Marshall-Wells Co. let contract addition to warehouse to JACOBSON BROS. About $25,000.

Minn., Minneapolis—Trustees Grinnell College let contract cold-storage building to BAILEY-MARSH CO., 725 Metropolitan Life Bldg.

Minn., Minneapolis—Western Crucible Steel Castings Co. let contract 1-story, 90x260-ft. foundry to VICTORSON CONSTRUCTION CO., 218 Tribune Annex.

Minn., St. Paul—Raudenbush & Sons, 65 East 6th St., let contract 1-story addition to N. P. FRANSEN CO., Endicott Bldg. About $12,000.

Minn., St. Paul—St. Paul Union Stock Yards Co. let contract for improvements to BUTLER BROS., New York Life Bldg. About $300,000. Noted June 22.

Minn., St. Paul—Specialty Manufacturing Co., 1049 Raymond Ave., received lowest bid for 1-story factory from Albinson Construction Co., Plymouth Bldg., Minneapolis. About $20,000. Noted July 20.

Neb., Omaha—H. J. Lee let contract warehouse to SELDEN-BRECK CONSTRUCTION CO. About $200,000.

N. D., Kathryn—Kathryn Farmers Elevator Co. let contract elevator, flour mill and power house to J. B. NELSON CONSTRUCTION CO., Mankato, Minn. About $60,000. Noted June 29.

Mo., Kansas City—F. M. Oglebay, 11th and Central St., let contract 2-story factory at 17th and Oak St. to WARREN S. WEEKS, 305 Reliance Bldg. About $25,000.

Mo., North Kansas City—Wabash Elevator Co. let contract elevator to STEPHENS ENGINEERING CO., 53 West Jackson Blvd., Chicago.

Mo., St. Louis—St. Louis & San Francisco R.R. let contract 1-story roundhouse at 3836 Chouteau Ave. to JAMES STEWART & CO. About $15,000.

Mo., St. Louis—Maloney Electric Co., 1149 South 7th St., let contract 3-story factory to MURCH BROS. CONSTRUCTION CO., Railway Exchange.

Mo., St. Louis—Monsante Chemical Works let contract two 2- and 3-story, 59x141-ft. factories to GILSONITE CONSTRUCTION CO., Wainwright Bldg. About $90,000. Noted Apr. 13.

Mo., St. Louis—St. Louis Felling Machine Co. let contract 2-story factory to J. HILL CONSTRUCTION CO., Syndicate Trust Bldg., St. Louis, $12,800.

Mo., Sugar Creek—Standard Oil Co. will build paraffine plant by day labor. Noted Aug. 10.

Tex., Wichita Falls—McFall Transfer and Storage Co. let contract storage and salesroom building to KEMP, KELL & HUFF. About $25,000.

Utah, Smithfield—Amalgamated Sugar Co. let contract factory to DYER CONSTRUCTION CO., 2031 Euclid Ave., Cleveland. About $500,000.

Wash., Darrington—Galbraith, Bacon & Co., Seattle, let contract plant to BLACK CONSTRUCTION CO., Alaska Bldg., Seattle. About $1,000,000. Noted Aug. 10.

Ore., Enterprise—Elgin Forwarding Co. let contract warehouse to GETTER BROS.

Ore., Parkdale—Apple Growers' Association, Hood River, let contract warehouse to L. C. BALDWIN.

Que., Sherbrooke—Canadian Cotton Mills Co. let contract factory to LOOMIS DAKIN, LTD., 25 Belvidere St. About $90,000.

Ont., Burford—Canadian Milk Products Co., Mail Bldg., Toronto, let contract factory at Burford to SCHULTZ BROS., Brantford. About $100,000. Noted June 15.

Ont., Chatham—American Pad and Textile Co. let contract addition to WELLS & GRAY, Confederation Life Bldg. About $50,000. Noted June 22.

Ont., New Toronto—Goodyear Tire and Rubber Co., 152 Simcoe St., Toronto, let contract factory to DOMINION CONSTRUCTION CO., 14 Wellington St. About $750,000. Noted May 11.

Ont., Toronto—W. Davies Co. let contract refrigerating plant to WITCHALL & SON, 156 St. Helens Ave. About $50,000. Noted July 13.

Ont., Toronto—Harris Abattoir Co., Ltd., Union Stocks Yards, let contract brick and concrete addition to WELLS GRAY, Confederation Life Bldg. About $75,000. Noted July 6.

FEDERAL GOVERNMENT WORK

Proposed Work

Mass., Boston—Air Compressors—Light House Inspector, Boston, receiving bids Aug. 22 for 2 air compressing outfits.

Mass., Boston—Dredging—Navy Dept. making plans.

Va., Norfolk—Building—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Sept. 2 for structural shop at navy yard, Norfolk.

Fla., Key West—Buildings—Navy Dept. making plans for radio buildings and masts for naval station.

La., Natchitoches—Tank—Treasury Dept., Office of Supvr. Arch., Washington, D. C., receiving bids Sept. 1 for septic tank, etc., at U. S. post office. J. A. Wetmore, Acting Superv. Arch.

Tex., Galveston—Removing Wreck—Bids received Sept. 6 at U. S. Engineer Office, Galveston, for removing wrecks in Houston Ship Channel and tributaries.

Colo., Denver—Mail-Handling Devices—Treasury Dept., Superv. Arch. Office, Washington, D. C., receiving bids Oct. 2 for mail-handling devices at United States post office at Denver. J. A. Wetmore, Acting Supvr. Arch. (See adv. Aug. 10 issue.)

Ore., Portland—Rock—U. S. Engineers Office, Portland, receiving bids Aug. 28 for 650,000 tons rock for work on north jetty of Columbia.

Federal Government Work (Continued)

Calif., Mare Island—Miscellaneous Supplies—Bureau of Supplies and Accounts, Washington, D. C., receiving bids Aug. 15.

Panama—Miscellaneous Supplies—Office General Purchasing Officer, Panama Canal, Washington, D. C., receiving bids Aug. 28. Circular No. 1070.

Panama—Miscellaneous Supplies—Office General Purchasing Officer, Panama Canal, Washington, D. C., receiving bids Sept. 1, Circular No. 1072.

Panama—Miscellaneous Supplies—General Purchasing Officer of Panama Canal, Washington, D. C., receiving bids Aug. 24, Circular No. 1069.

Alaska, Unga Island—Wireless Station—Senate, Washington, D. C., appropriated $45,000 for wireless station at Unga Island.

Bids In and Contracts Awarded

N. Y., New York—Mail Handling Apparatus—Contract mechanical mail-handling devices in U. S. post office let to LAMSON CO., Boston, $144,057. Noted May 25.

D. C., Washington—Wall—Bids received Aug. 10 for (a) terrace retaining wall, (b) masonry approaches, (c) work complete, for Lincoln Memorial from Marble Arch Co., Broadway and 216th St., New York, Fox Island granite, (a) $100,000, (b) $186,000, (c) $291,000; pink Milford, Bay State, (a) $121,000, (b) $201,000, (c) $321,000; pink Conway, (a) $109,450, (b) $180,350, (c) $289,800; Stonington, (a) $100,650, (b) 168,200, (c) $278,800; Dix Island, (a) $110,000, (b) $185,000, (c) $295,000; George C. Fuller Co., Munsey Bldg., Washington, Fox Island, (c) $272,500; pink Milford Bay State, (c) $309,500, webb pink Milford, (c) $317,000; P. T. Cox, 154 Nassau St., New York, Fox Island, (a) $115,130, (b) $200,310, (c) $303,397; pink Milford, (a) $126,460, (b) $215,993, (c) $332,983; Den Island, (a) $107,130, (b) $177,710, (c) $276,870; Green's Landing, (a) $117,190, (b) $193,895, (c) $292,070. Noted July 20.

N. C., Burlington—Post Office—Low bids received Aug. 11, (a) limestone, (b) sandstone from McAdams & Mitchell, Burlington, (a) $62,696; King Lumber Co., Charlottesville, Va., (a) $64,927, (b) $66,500; R. V. Richardson, Hampton, Va., (a) $65,670, (b) $68,670. Noted July 13.

Fla., Key West—Fire Protection System—Bids received Aug. 12 for fire protection system for oil storage at Key West Naval Station from F. E. Eisinger, New York, $18,836, $13,888; National Fire Extinguisher Co., Philadelphia, $20,529, $17,516, $15,418; Carroll Electric Co., Washington, $16,800. Noted July 27.

La., New Orleans—Mail Handling Devices—Contract mail handling devices in U. S. post office let to LAMSON CO., Boston, $20,061.

N. M., Carlsbad—Excavation—U. S. Reclamation Service, Carlsbad, receiving bids Aug. 1 from John Mulligan, 2004 Olive St., El Paso, Tex., Schedule No. 1, $31,980, Schedule No. 2, $13,472; H. E. Williams, 2914 Tularosa St., El Paso, Schedule No. 1, 60x100. A. P. Davis, Ch. Engr. Noted July 20.

Wash., North Head—Radio Mast—Navy Dept. let contract 1 wooden radio mast for naval station, North Head, to MARTIN & DUGAN CONSTRUCTION CO., Northern Bank Bldg., Seattle, $7,500. Noted Aug. 3.

Ore., Portland—Post Office—Low bids received Aug. 7, (a) limestone, (b) sandstone from Grant Fee, San Francisco, Calif., (a) $762,000; McLeran & Peterson, San Francisco, (a) $807,742, $800,742, (b) $749,942, $793,742; Norman Ker Co., New York, (a) $789,807, $777,807, $813,307; William Dall Co., Cleveland, (a) $795,000, (b) $795,000. Noted June 15.

Calif., Vallejo—Dredge—Union Iron Works, San Francisco, $45,000 submitted only bid for bucket dredge for Mare Island Navy Yard. Noted July 13.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., Albany—Barge Canal Work—W. W. Wotherspoon, State Supt. Pub. Wks., receiving bids Sept. 6 for Terminal Contract No. 31, dock wall and an approach at Lyons. About $57,925.

N. Y., Albany—Barge Canal Work—W. W. Wotherspoon, State Supt. Pub. Wks., receiving bids Sept. 6 for Contract No. 99, Oswego Canal, Section 1, portions of bridge over Oswego River at Minetto. About $117,170.

Fla., New Smyrna—(Official)—Drainage—Lake Ashby Drainage Dist. receiving bids about Oct. 1 for draining 48,000 acres. About $300,000. Coenracts & Keller, 233 East 2d St., Jacksonville, Consult. Engr., not Clenraits & Keller as stated in Aug. 3 issue.

Tenn., Huntington—Reclamation—Carroll County Drainage District No. 1 made plans for 30 mi. canals to reclaim 20,000 acres. About $150,000. F R. Moomaw, Huntington, County Surv. Noted May 25.

Ohio, Defiance—Ditch—Surveys being made for Platter Creek Ditch. About $20,000.

Minn., Anoka—Drainage—No bids received July 28 for Judicial Ditch No. 1 in Sherburne and Anoka Counties. Noted Dec. 16.

Minn., Buffalo—Ditches—Wright County receiving bids Sept. 2 for County Ditches Nos. 28 and 31. About $4,227 and $9,604 respectively. J. A. Berg, Buffalo, County Audr.

S. D., Plankinton—Drainage—Aurora County plans drainage ditch in Palatine Township. About $24,000.

S. D., Woonsocket—Ditches—Sanborn County Comrs. plan 3 drainage ditches. About $38,000.

Tex., San Benito—Irrigation—San Benito Irrigation Dist. soon votes on $600,000 bonds to improve system.

Colo., Moffat—Canal—Moffat Irrigation Dist. soon lets contract for Rio Grande Canal, 30 mi.

Utah, Richfield—Drainage—Seiver County Drainage Dist. No. 1 receiving bids Aug. 22 for drainage system. Brown & Kleinschmidt, 306 Dooly Blk., Salt Lake City, Engr.

Calif., Saticoy—Drainage—Saticoy Drainage Dist., estimates cost of drainage works at $32,780.

Bids In and Contracts Awarded

Mass., Gloucester — Dredging — Bids received Aug. 9 for dredging 6,000 cu.yd. in Gloucester Harbor from Bay State Dredging Co., 247 Atlantic Ave., Boston, 45c. per cu.yd., and Boston Dredging Co., 40 Central St., Boston, 47¼c.

N. Y., Albany—Barge Canal Work—State Supt. Pub. Wks. let contract Terminal Contract No. 52, repairing and extending Pier 6, East River, New York, to KAUFMAN & GARCEY, 51 Chambers St., New York, $91,317. Noted Aug. 3.

N. Y., New York—(Manhattan)—Dredging—City rejected bid received July 31 for dredging at foot of East 90th St., Contract 1510. Noted Aug. 10.

Ind., Brazil—Ditches and Levees—Reservoir Improvement Co. let contract canals and dikes to F. M. CRANE & CO., Omaha, Neb., and riprap, concrete work, flood gates and pump house to STEELE & CO. Noted July 20.

Minn., Benson—Ditch—Contract ditch on Ferry and Loughlin farms let to MARSH BROS., Glencoe, $7,000. Noted Dec. 16.

Mo., Cape Girardeau—(Official)—Drainage—Bd. Supervs. Littel River Drainage Dist. let contract 16,000 sq.yd. riprap, facing in 3,000 ft. canal slopes to SEITZ & PETERMAN, St. Louis. Noted July 27.

Calif., Riverside—Drainage—Riverside County let contract Drainage District No. 2, 450,000 cu.yd. excavation, to J. E. WINSHIP, $52,700. Noted July 6.

MISCELLANEOUS

Proposed Work

Mass., Revere—Pile Driving—C. G. Richmond, Supt. Pub. Wks., receiving bids Aug. 21 for furnishing, driving and capping 158 piles on Arcadia St.

N. Y., New York—(Manhattan)—Frogs and Switches—Pub. Ser. Com. for First Dist. receiving bids Aug. 30 for supply of special work, Order No. 9, frogs and switches, for use of Rapid Transit R.R., Culver Line. O. S. Straus, Chn.

N. Y., New York—(Queens)—Bathhouse—W. P. Ormand, 909 President St., Brooklyn, made plans, 3-story, 20x160-ft., Rockaway Park, L. I. About $7,500. A. S. Hedman, 371 Fulton St., Brooklyn, Arch.

N. J., Wildwood—Bathhouse—M. J. Gilmore, 3553 North 11th St., Philadelphia, Penn., plans, 2-story, 24x100-ft. About $16,000. M. B. Reeves, Arch.

Md., Baltimore—Market House—City soon receiving bids for addition. About $15,000. F. Thomas, 66 Gunther Bldg., Arch. Noted June 15.

Miss., Gulfport—Seawall—City receiving bids Sept. 5. About $180,000. H. D. Shaw, City Engr. Noted July 27.

La., New Orleans—Harbor Improvements—Louisville Railway and Navigation Co. plans, St. Charles Parish property on Mississippi River. W. H. Coppage, Shreveport, Supt.

Ohio, Cincinnati—Comfort Station—City plans, 4015 Spring Grove Ave. About $10,000. F. Krug, City Engr.

Ohio, Cleveland — Bathhouse — City receiving bids Aug. 25, 50x80-ft. addition, Gordon Park. About $25,000. F. Betz, 420 City Hall, Arch.

Ohio, Cleveland—Comfort Stations—City receiving bids about Sept. 1 for 3 comfort stations at 14th St. and Abbey Ave., 25th St. and Clark Ave. and West 25th St. and Denison Ave. About $6,000 each. E. Shattuck, 219 City Hall, Com. of Purchases and Supplies. Noted Nov. 18.

Ohio, Sandusky—Elimination Grade Crossing—City and railroads plan, Columbus Ave. About $239,441. A. F. Johnson, City Engr.

Ohio, Zanesville—Market House—City votes about Sept. 1 on $60,000 bonds. W. W. Roach, Dir. Pub. Ser. Noted June 22.

Ind., Evansville—Market House and Park Improvements—City appropriated $50,000 for market house and $35,000 for extending and developing Mesker Park. J. D. Saunders, City Engr.

Ill., Chicago—Ice Skating Rink—White City Electric Wonder, care of J. Boifield, Hotel Sherman, making plans. About $125,000. Lebonbaum, Marx & Vigeant, 175 West Jackson Blvd., Arch.

Ill., Peoria—Swimming Pool—Seymour Wellner, Jefferson Hotel, making plans, 25x40-ft. W. W. Day, 527 Main St., Arch.

Wis., Fennimore—Park and Playgrounds—W. Marsden gave $80,000 to village for park and playgrounds to be known at Marsden Park.

Minn., Owatonna—Storage Shed—L. G. Campbell Milling Co. making plans. About $20,000. Toltz Engineering Co., Pioneer Bldg., St. Paul, Engr.

Kan., Independence—Shelter House—A. C. Stich making plans. About $15,000. C. K. Birdsall, 1002 Commerce Bldg., Kansas City, Mo., Arch.

Ark., Newport—Levees—Newport Levee Comrs. made plans for levee system. About $125,000. C. H. Miller, Little Rock, Consult. Engr. Noted Jan. 20.

Tex., Beaumont—Wharf—City votes Sept. 5 on $230,000 bonds for Unit No. 2 of wharf and 1,000 ft. of quay to take care of lumber cargoes.

Colo., Rocky Ford—Stone Crusher—City Council plans to purchase.

Calif., Sacramento—Levee—Plans being made for levee from Southern Pacific tracks southerly to Lower Stockton Rd.

Bids In and Contracts Awarded

Mass., Bridgewater—Engine House—State let contract to G. HOWARD & SONS, 633 Warren Ave., Brockton.

Mass., Worcester—Coal Trestle and Bins—Worcester Fuel Co. let contract to KEAFE BROS., Brockton. About $10,000.

N. Y., New York—(Bronx)—Comfort Station—Low bids received Aug. 10 for comfort station at athletic field in Pelham Bay Park from Penedette, Clark & Nugent, Inc., 423 East 115th St., $7,135; W. Honop, $7,440; Alpha Painting Corporation, $7,692.

N. Y., New York—(Manhattan)—Cables—Low bids received Aug. 5 for underground lead-covered distribution cables from 14th St. to 82d St. from Safety Insulated Wire and Cable Co., $90,469; Okonite Co., $99,948; Standard Underground Cable Co., $123,340. Noted June 22.

N. Y., New York—(Manhattan)—(Official)—Track Installation—Pub. Ser. Com., 120 Broadway, let contract, portion Broadway-Fourth Ave. Rapid Transit R.R. to T. H. REYNOLDS CONTRACTING CO., INC., $288,400. Noted Aug. 3.

N. Y., New York—(Queens)—Bulkhead—City let contract timber jetties and bulkhead on beach at Jacob Titz Park, Rockaway, to D. DONEGAN, 5904 14th Ave., Brooklyn, $29,177.

N. J., Long Branch—Swimming Pool—D. M. Ach, Arch., 1 Madison Ave., New York, let contract to TOMPKINS & MATHER, Red Bank. About $10,000. Noted Aug. 10.

La., New Orleans — Levees — Comrs. Fifth Louisiana Levee Dist. let contracts to R. NICHOLSON, Hicks Slough Levee, East Carroll Parish; DONOVAN & DALEY, Elton or Alright Slough Levee, East Carroll Parish; C. H. HALE, Hollybrook Levee, East Carroll Parish; R. T. CLARKE & CO., Lower Cabin Teele to Sparta Levee, Madison Parish; LINNAN BROS., Reid-Biggs Levee, Madison Parish; F. T. CONSTANT, Cottage Home Levee, Tenas Parish; H. I. VAN FOSSEN, Wornicut Levee, Concordia Parish; W. T. BEAUCHAMP, Ashley Levee, Concordia Parish; bids for repair to Willow Point Loop Levee and Donna Vista Levee, East Carroll Parish, rejected. About $2,500,000. Noted June 15.

La., New Orleans—Levee—Bd. State Engr. let contract Atherton Levee to DAWSON, WHITE & CO., LTD., and HERCULES CO., LTD.

Mich., Escanaba—Bathhouse—Park Comrs. let contract, Ludington Park, to J. S. LINDSAY.

Ill., Chicago—Field House—Lincoln Park Comrs. let contract to G. LYONS, 4537 St. Lawrence Ave. Noted Aug. 10.

N. D., Litchville—Market House—H. Glaser let contract, 1-story, 25x70-ft., to M. N. MEILSON, Valley City, $4,881.

Wash., Tacoma—Dock—Chicago, Milwaukee & St. Paul Ry. let contract substructure for dock to J. A. McEACHERN CO., INC., Bell St. Dock, Seattle. Railway will build superstructure by day labor. C. F. Loweth, Railway Exchange Bldg., Chicago, Ch. Engr.

Calif., San Francisco—Pier—Contract extending Pier No. 43 let to HEALY-TIBBETTS CONSTRUCTION CO., Main and Market St., $10,112.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works," "Federal Government Work" and "Miscellaneous."

Vt., Proctor — Office — Vermont Marble Co. plans, 3-story, 60x100-ft. brick, stone and steel. About $60,000.

Mass., Amesbury—High School—City receiving bids Aug. 21, Main St. About $125,000. Prescott & Sodebottom, 12 Pearl St., Boston, Arch. Noted July 27.

Mass., Chicopee—Building—St. Joseph's Temperance Society making plans.

Mass., Holyoke—Hospital—City receiving bids Sept. 1 for isolated hospital on Cherry St. Oscar Beauchimin, 380 High St., Arch. Noted July 6.

Buildings (Continued)

Mass., Somerville—Church—First Universalist Church making plans, 30x120-ft. brick. About $40,000. Cram & Ferguson, 15 Beacon St., Boston, Arch.

Conn., Hartford—Y. M. C. A. making plans for 5-story, 100x180-ft. building. About $300,000. L. E. Jallade, 37 Liberty St., New York, Arch.

N. Y., New York—(Brooklyn)—Club-house—Oriental Hotel making plans, at Manhattan Beach. Joseph P. Day, 31 Nassau St., New York, Arch.

N. Y., New York—(Brooklyn)—Church—Congregation Schaari Torah, Flatbush, made plans 2-story brick, on Bedford Ave. About $50,000. I. J. Feinberg, 423 Pennsylvania Ave., Arch.

N. Y., New York—(Manhattan)—B. Moore Estate made plans 12-story brick, limestone and terra cotta building. About $175,000. Paul C. Hunter, 191 19th Ave., Arch.

N. Y., Patchogue—Club-house—Patchogue Lodge B P. O. E., making plans 3-story on Main St. and Maple Ave. About $50,000. Tooker & Marsh, 101 Park Ave., New York, Arch.

N. Y., Scarsdale—Club-house—Sunnydale Country Club making plans on Overook Course property. About $50,000. Robert D. Kohn, 56 West 45th St., New York, Arch.

N. J., Atlantic City—Hotel—Traymore Hotel made plans, 20-story, 100x140-ft. addition. About $1,500,000. Price & McLanahan, Bellevue Court Bldg., Philadelphia, Arch. Noted Apr. 6.

N. J., Cape May—High School—Bd. Education making plans, 2-story. About $45,000. S. H. Vaughn, Guarantee Trust Bldg., Atlantic City, Arch.

N. J., Nutley—School—Bd. Education making plans, 2-story on Bloomfield Ave. About $40,000. Conklin & Convery, 655 Broad St., Newark, Arch. Noted May 25.

N. J., Ocean City—Club House—Meadow Brooke Co. making plans, 3-story. About $75,000. A. J. Sauer Co., 908 Chestnut St., Philadelphia, Arch.

N. J., Ocean City—Hotel—Meadow Brooke Co. made plans, 10-story. About $1,500,000. H. L. Stevens Co., 900 South Michigan Ave., Chicago, Arch.

N. J., Paterson—Orphan Asylum—St. Josephs Orphan Asylum making plans, on Main St. About $100,000. William T. Fanning, Colt Bldg., Paterson, Arch.

N. J., Princeton—(Official)—Clubhouse—Tower Club receiving bids, 2-story brick. About $48,000. R. B. Barnes, 15 East 40th St., New York, Arch.

N. J., Scotch Plains—School—Bd. Education Fanwood Township made plans, 2-story addition. About $50,000. W. F. Bower, 44 Harrison St., East Orange, Arch.

N. J., Union Hill—(Weehawken post office)—Hudson Despatch News making plans for 4-story building at Lewis and New York Ave. About $50,000. Joseph D. Lugosch, 21 Bergenline Ave., Union Hill, Arch.

Penn., Chambersburg—Bank—Farmers & Mechanics Trust Co. making plans. D. L. Grove, Treas. About $75,000.

Penn., Coraopolis—High School—Bd. Education making plans. About $100,000. F. McCrooks, Pittsburgh, Arch.

Penn., Hanover—Sheppard & Myers soon receives bids for 4-story, 100x115-ft. motion-picture theater, bank, store and office building. C. N. Anderson, 324 North Charles St., Baltimore, Arch.

Penn., Johnstown—Hospital—Mercy Hospital plans 4-story addition. About $50,000. H. Hornbostel, William St., New York, Arch.

Md., Mt. Washington—Church—Roman Catholic Congregation plans. About $80,000.

D. C., Washington—School—National Cathedral School for Girls made plans, 3-story addition. About $100,000. H. Vaughan, 20 Pemberton Sq., Boston, Arch.

D. C., Washington—Theater—Willard Estate making plans, 1-story, 106x135-ft. About $300,000. Hoffman & Co., Finance Bldg., Philadelphia, Arch.

Va., Roanoke—Hospital—Lewis Gates Hospital making plans, 4-story, 40x60-ft. and 35x40-ft. addition. About $40,000. H. M. Miller, 3 Campbell Ave., Arch.

W. Va., Logan—Hotel and Store—H. Ghiz made plans. About $50,000.

W. Va., Parkersburg—School—City voted $125,000 bonds.

Ga., Atlanta—Massell Realty Co. plans 5-story building. About $60,000.

Ga., Augusta—Temple—Bd. Trustees Masonic Temple making plans. About $50,000. G. L. Preacher, Arch.

Fla., Jacksonville—School—F. A. Hathaway, Supt. Pub. Instr., receiving bids Sept. 2 for $500,000 bonds.

Fla., West Palm Beach—Hotels—East Coast Hotel Co. plans to improve Royal Poinciana and Breakers Hotel. About $100,000.

Ala., Mobile—School—Mobile County voted $150,000 bonds. S. S. Murphy, Mobile, Supt. Education.

Ala., Montgomery—City Hall—City plans. S. E. Washburn. City Engr.

Ala., Tuscumbia—School—City voted $60,000 bonds for improvements.

Ky., Covington—German Mutual Fire Insurance Co. making plans for 3-story building. About $100,000. Samuel Hannaford & Sons, Cincinnati, Arch. Noted May 25.

Ohio, Bay Village—School—City defeated $40,000 bonds. Noted Apr. 20.

Ohio, Cincinnati—Hall—Knights of Pythias plans, 3- or 4-story. About $100,000. W. H. Leuder, Broadway and Pioneer St., in charge.

Ohio, Cleveland—School—Bd. Education receiving bids Sept. 11. Frank G. Hogan, Dir. of Schools.

Ohio, Cleveland Heights—(Warrensville post-office)—School—City defeated $180,000 bonds. E. Bryant, Clk. Bd. of Education. Noted July 20.

Ohio, Columbus—Coliseum—D. C. Beggs, 21 South High St., made plans. C. L. Incho, 145 North High St., Arch.

Ohio, Defiance—School—City voted $200,000 bonds. Noted July 13.

Ohio, Frederickton—(Official)—High School—School Dist. receiving bids Sept. 8. Ernest V. Ackerman, Clk. Howard & Merriam, 8 East Broad St., Columbus, Arch. Noted July 20.

Ohio, Manumee—Administration Building—Bd. Comrs., Lucas County, receiving bids Aug. 31, Lucas County Childrens Home. G. Cooper, Toledo, County Audr.

Ohio, Norwood — Church — Norwood Baptist Church, Courtland Ave. retained Samuel Hanaford & Sons, 6th and Vine St., Cincinnati, to make plans. About $60,000.

Ohio, Old Fort—School—Bd. Education plans, 2-story, 40x50-ft. About $45,000. H. C. Millott, Bliss Bldg., Sandusky, Arch.

Ohio, Portsmouth—School—Bd. Education receiving bids Aug. 25 for sale of $67,000 bonds.

Ohio, South Webster—High School—Bloom Township plans, 2-story. About $88,000. De Voss & Donaldson, 38 First National Bank Bldg., Portsmouth, Arch.

Ohio, Toledo—Administration Building--Bd. County Comrs. receiving bids Aug. 23, 3-story, 81x97-ft. children's home. About $85,000. T. F. Huber, 752 Spitzer Bldg., Arch. Noted July 27.

Ohio, Warrensville—Tuberculosis Sanitarium—City plans $400,000 bond issue.

Ohio, Warrensville—School—Bee Hive School Dist. votes Aug. 26 on $50,000. Guy W. Shurmer, Clk. Noted July 20.

Ohio, Youngstown—Theater and Lodge—Loyal Order of Moose, No. 79, receiving bids Sept. 1, 8-story, 60x137-ft. About $150,000. G. A. Edelsvard, 1005 Mahoning Bank Bldg., Arch.

Ind., Evansville—Church—St. Johns Evangelical Church making plans. About $125,000. Graham & Hill, 1022 Hume Mansue Bldg., Indianapolis, Arch.

Ind., Ft. Wayne—Odd Fellows making plans for building. About $40,000. A. M. Strauss, Arch.

Ind., Indianapolis—Hotel—Gill-Buennagel Realty Co. granted permit, Washington St. and Senate Ave. About $68,200.

Ind., North Manchester—High and Grade School—Bd. Education plans, 2-story. About $45,000. C. Houck, Vatet Bldg., Muncie, Arch.

Ind., Sullivan—Hospital—Sullivan County Hospital Bd. plans. Kennerly & Spiegemeyer, St. Louis, Arch.

Mich., Bay City—Theater and Office—Commercial Building Co. plans, 3-story on Washington Ave.

Mich., Sturgis—School—J. H. Whitmer, Secy. Bd. Education, receiving bids Aug. 22. About $125,000. Robinson & Campau, 450 Houseman Bldg., Grand Rapids, Arch. Noted Apr. 20.

Ill., Blue Island—High School—Bd. Education soon receives bids, 2-story, 85x150-ft. About $80,000. Miller, Fullenwider & Dowling, 6 North Michigan St., Chicago, Arch. Noted June 15.

Ill., Chicago—High School—Bd. Education making preliminary plans, 3-story addition to Tuley high school. S. F. Hussander, Arch.

Ill., Chicago—School—Bd. Education receiving bids about Sept. 1 for 3-story, 171x221-ft. Kelvin Park School. About $285,000. A. F. Hussander, 7 South Dearborn St., Arch.

Ill., Chicago—School—Bd. Education making plans for 3-story addition to Lawson School. About $110,000. J. A. Guilford, 7 South Dearborn St., Bus. Mgr.

Ill., Chicago—Hotel—J. B. V. Dibelka, Arch., 130 North 5th Ave., making preliminary plans, 7-story, 54x130-ft.

Ill., Chicago—Hotel—P. Gerhardt, Arch., 65 West Randolph St., making plans, 10-story, 90x160-ft. About $460,000.

Ill., Granville—High School—Hopkins Township High School No. 536 plans, 3-story, 80x100-ft. About $50,000. E. A. Payne, Carthage, Arch.

Ill., Lake Forest—Hotel—M. H. Patterson making plans, 3-story addition Deerpath Inn. About $50,000. A. W. Marrow, 1461 Monadnock Blk., Chicago, Arch.

Wis., Appleton—Dormitory—Lawrence College making plans, 3-story, Russell Sage. About $100,000. Childs & Smith, 122 South Michigan Ave., Chicago, Arch. Noted Aug. 10.

Wis., Milwaukee—Administration Building—Isolation Hospital, Mitchell St. and 19th Ave., receiving bids Sept. 1, 2-story rein.-con. Charles E. Maig, City Hall, Arch.

Iowa, Chester—School—E. D. McWilliams, Se Independent School Dist., receiving bids Aug. for 2-story, brick. F. H. Moose & Co., Rochester, Arch.

Iowa, Jesup—School—City sold $85,000 bonds M. Young, Member Bd. of Consolidated School Dist. Noted Aug. 10.

Iowa, Knoxville—(Official)—School—T. G. Gilson, Secy. Independent Dist., rejected bids. New bids Sept. 7. Noted June 22.

Iowa, Valley Junction—School—Bd. Education sold $50,000 bonds

Minn., Detroit—Hotel—C. E. Hamilton plans 3-story, 50x142-ft. About $75,000. E. F. Broomhall, Duluth, Arch.

Minn., Medalia—City Hall and Fire Station—City receiving bids Aug. 21. F. H. Hillesheim, City Clk.

Minn., Mora—High School—City votes Aug 29 on $40,000 bonds.

Minn., Proctor—School—School Bd. plans About $50,000. Vernon J. Price, Duluth, Arch.

Minn., St. Cloud—Church—First Presbyterian Church receiving bids about Sept. 1. About $40,000. H. W. Jones, 923 Lumber Exchange Bldg., Minneapolis, Arch.

Neb., Omaha—Field School—Bd. Education making plans, 2-story. About $50,000. G. B. Prinz, 1053 New Omaha National Bank Bldg., Arch.

Neb., Lincoln—University of Nebraska soon receives bids for building. About $140,000. J. S. Dales, Secy. Bd. of Regents. Noted Aug. 3.

Ark., Cave Springs—Hotel—William Bartlett making plans. About $100,000. Snowden Engineering Co., Kansas City, Mo., Arch.

Ark., Hot Springs—Hotel—Como Hotel making plans for addition. T. M. Sanders, Urquhart Bldg., Little Rock, Arch.

Tex., Austin—Bd. of Trustees of State School approved plans for building at Deaf and Dumb Institute. About $65,000. Kuehne, Chasey & Giesecke, Austin, Arch. Noted Aug. 10.

Tex., Dallas—Courthouse—County Comrs. receiving bids Aug. 26. Address County Clk., Dallas.

Tex., Marlin—School—Bd. Education soon receives bids. About $60,000. Noted Apr. 20.

Okla., Ardmore—Pioneer Telephone Co. soon received bids for rein.-con. building at Broadway and B St. About $40,000. Noted June 15.

Calif., Santa Barbara—Clubhouse—Santa Barbara Country Club making plans. About $50,000. Bertram Goodhue, 2 West 47th St., New York, Arch.

Calif., San Francisco—Masonic Temple. A. F. & A. M. plans on 12th St. About $300,000. R. A. Herold, Arch.

Bids In and Contracts Awarded

Vt., Brandon—High School—City let contract, 2-story, 57x106-ft., to T. W. ROGERS, Brandon. About $50,000. Noted June 8.

Mass., Boston—Dormitory—Gordon Bible Institute, Huntington Ave., let contract, 4-story, brick, to HOLT-FAIRCHILD CO., Old South Bldg. Noted Dec. 9.

Mass., Cambridge—Bank—Charles River Trust Co. let contract 2-story, Massachusetts Ave., to GASCOIGNE & GODDARD, 19 Milk St., Boston.

Mass., Framingham—School—Bd. Education received lowest bid for addition to state normal school from Hoyt Co., 443 Broadway, South Boston. R. D. Kimball Co., 6 Beacon St., Engr.

Mass., Lynn—School—City let contract to C. S. CUNNINGHAM & SONS CONSTRUCTION CO., 7 Water St., Boston. About $159,410.

Mass., Milton—School—City received following bids for addition: Joseph Slotnick, 10 Lawrence St., Chelsea, $174,279; Daniel L. Shepard, 46 Cornhill, Boston, $189,680; C. S. Cunningham & Sons Co., 101 Tremont St., Boston, $196,192. Kilham & Hopkins, 9 Park St., Arch. Noted June 29.

R. I., Bristol—School—City let contract, 2-story, 72x129-ft., to W. WILLIAMS, 86 Weybosset St., Providence. About $65,000.

Conn., New Haven—Artillery Armory—Yale University let contract to SPERRY & TREAT CO., 39 Church St. About $75,000.

Conn., Wethersfield—Vacation House—Y. W. C. A. let contract to TRUAX & KEENEY, 26 State St. About $40,000.

N. Y., Alleghany—J. V. Duffy, 128 South 4th St., Olean, low bidder for gymnasium, college and power plant for St. Bonaventure's College About $125,000. Noted Mar. 2 .

N. J., Rochester—Synagogue—Jewish Synagogue let contract 1-story, 113x150-ft. to R. T FORD & CO., 206 South Ave., Rochester. About $150,000. Noted Aug. 10.

Penn., Donora—School—Bd. of Education let contract addition 1st St. to DONORA LUMBER CO., Meldon Ave. About $244,500.

Penn., Nesquehoning—High School—Bd. Education let contract to ANDREW J. BRESLIN, about $59,892.

Penn., Souderton—Eastern Dist. Conference of Mennonites let contract 3-story home for aged to J. B. DELP. About $100,000.

Buildings (Continued)

D. C., Washington—Administration Building and Hospital—Georgetown University Hospital let contract, 6-story, 75x120-ft., to H. B. DAVIS, 813 14th St. About $150,000.

D. C., Washington—Mt. Vernon Seminary let contract main building, including power plant, laundry and garage to BOYLE-ROBINSON CONSTRUCTION CO., 1516 H St., N. W. About $300,000.

D. C., Washington—Church—Methodist Congregation let contract, Massachusetts Ave. and K St., N. W., to BOYLE-ROBERTSON CONSTRUCTION CO., 1516 H St., N. W. About $250,000.

D. C., Washington—Hotel—Powhatan Hotel, 18th St. and Pennsylvania Ave., let contract addition to GEORGE A. FULLER CO., Munsey Bldg.

Va., Weyers Cave—School—Middle River School Bd. let contract to EUTSLER BROS., Grottoes, Va.

Fla., Tampa—J. C. Vinson let contract 3-story, 100x100-ft. rein.-con. building to McGUCKEN & HYER, Tampa. About $50,000.

Miss., Brookhaven—Church—Brookhaven Methodist Congregation received low bid from I. C. Garber, Jackson. About $40,000.

Miss., Tylertown—Jail and Courthouse—Walthall County let contract to LITTLE-CLECKER CONSTRUCTION CO., Anniston, Ala. About $50,000. Noted June 22.

Tenn., Nashville—Church—Woodland St. Presbyterian Church let contract to J. W. PATRICK & CO., 41 Noel Blk. About $50,000. Noted June 15.

Ohio, Akron—Parish House and Church—Church of Annunciation let contract, 2-story, 60x70-ft., to CONVERSE & SON, Massillon. About $40,000.

Ohio, Alliance—School—Bd. Education let contract State St. School, Mt. Union, to WILLING BROS., Bellevue, $54,569.

Ohio, Alliance—Elks' Home—Alliance Lodge No. 467, Benevolent and Protective Order, let contract to J. H. WELLS CO., Cleveland. About $50,000. Noted Feb. 3.

Ohio, Bryan—Auditorium and Gymnasium—Bd. Education let contract to WILLING BROS., Bellevue. About $92,000. Noted Apr. 13.

Ohio, Cincinnati—Library—Lloyd Library and Museum let contract, 4-story addition, Court and Plum St., to W. & A. REUTER, Cincinnati. Noted Aug. 10.

Ohio, Wellington—(Official)—High School—Bd. Education let contract E. CONVERSE & SON, Massillon. Noted July 27.

Mich., Flint—Hospital—Maternity Hospital let contract to H. V. SNYDER & SON, Battle Creek. About $40,000.

Mich., Highland Park—Church—First M. E. Church let contract, 2-story, 80x144-ft., to BYER BROS. CONSTRUCTION CO., 608 Douglas Ave., Kalamazoo. About $40,000.

Ill., Champaign—Hotel—Inman Hotel Co. let contract, 2-story, 80x100-ft. addition, to ENGLISH BROS. About $50,000. Noted Apr. 13.

Ill., Chicago — Club House — Rogers Park Women's Club let contract, 2-story, to J. T. & J. W. O'CONNOR CO., 189 West Madison St. About $45,000.

Ill., Chicago—Hotel—Mary Gates Dawes Hotel let contract, 4-story, 66x130-ft. addition, to J. HAIGH & SON, 140 South Dearborn St. About $100,000.

Ill., Macomb—Art Building—Western Illinois Normal School let contract to A. W. STOOLMAN & CO., Champaign, $89,638. Noted July 20.

Wis., Eau Claire—Hospital—Luther Hospital let contract 3-story, stone and concrete, to HOEPPNER CONSTRUCTION CO.

Wis., Park Falls—School—City let contract, 2-story, 60x123-ft., to MICHIE CONSTRUCTION CO., 35th and National Ave., Milwaukee. About $50,000. Noted July 20.

Wis., Somerset—Church—St. Ann's Congregation let contract to OTTO NEITGE. About $45,000. Noted June 1.

Iowa, Floyd—School—City let contract to J. J. PETERSON, Waterloo, $45,000.

Iowa, Lacona—High and Grade School—Independent School Dist. let contract to ENSLOW & BEST, Chariton.

Iowa, Ottumwa—Lodge Building and Garage—Local I. B. O. F. Lodge let contract, 3-story, brick, to OTTUMWA MILL AND CONSTRUCTION CO.

Minn., Duluth—Church—Pilgrim Congregational Church let contract to GEORGE H. LOUNSBERRY. About $103,000. Noted Aug. 10.

Minn., Minneapolis — Dormitory — Norwegain Lutheran Deaconess Hospital let contract, 2-story, 45x122-ft., to ANDREW LARSON & SON, 3121 South 17th Ave. About $40,000.

N. D., Minot—High School—School Dist. No. 1 let contract to D. A. DINNIE, Minot. About $150,000. Noted July 6.

Mont., Three Forks—School—Dist. No. 24 let contract, Gallatin and Broadwater St., to D. M. ANDERSON. About $40,000.

Tex., San Antonio—Club House—Contract San Antonio Country Club House let to COLEMAN & JENKINS. About $55,000.

Colo., Colorado Springs—Railway Station and Hotel—Atchison,Topeka & Santa Fe Ry. let contract to C. E. FELLOWS, 500 Central Bldg., Los Angeles. About $250,000. Noted Apr. 27.

Utah, Salt Lake City—School—Bd. Education let contract to J. H. ANGELL, Salt Lake City. About $43,956.

Wash., Tacoma—Feist & Bachrach soon lets contract for 4-story brick building on 13th St. About $55,000. Heath & Gove, National Realty Bldg., Arch.

Calif., Los Angeles—Building—Valentine Kratz let contract 5-story rein.-con. to LEONARD & PECK, H. W. Hellman Bldg. About $46,600. Noted June 15.

TRADE PUBLICATIONS

R. I. W. Preservative Paints and Compounds. Toch Bros., 320 Fifth Ave., New York. Red Book. Pp. 32. 5½x8 in. This is the 1916 edition of this book containing information on preservative and decorative paints and compounds which ought to be useful to engineers, architects, contractors, etc.

Vulcan Soot Cleaners. Vulcan Soot Cleaner Co., Du Bois, Penn. This is a 92-page book on the subject of soot and the application of the soot cleaners made by this company. As a frontispiece there is a four-color reproduction of actual specimens of soot from different boilers and with different fuels.

Protecting the Water Supply of Greater New York. Wallace & Tiernan Co., Inc., 136 Liberty St., New York. Pamphlet. 7x10 in. From 450 to 550 million gallons of water a day are being chlorinated at seven different city-owned plants in Greater New York by Wallace & Tiernan liquid chlorine apparatus pictured and briefly described herein.

Bar Benders, Sandwich Pumping Outfit. D. A. Hinman & Co. Sandwich, Ill. Catalog. Pp. 8; 4x9 in. This illustrates and describes the different types of bar benders and diaphragm pump made by this company.

Brownhoist Locomotive Cranes. The Brown Hoisting Machinery Co., Cleveland, Ohio. Catalog I. Pp. 64; 6x9 in. Illustrated.

Concrete Mixers. The Jaeger Machine Co., Columbus, Ohio. Catalog. Pp. 36, 6x9 in. Illustrated.

Differential Electric Dumping Car. Differential Car Co., Nashville, Tenn. Catalog. Pp. 10; 5x7 in. This illustrates and describes a dump car with traversing body designed for electric-railway service. Dumps clear of the track. Body is low, making hand loading convenient, the floor being only 3½ ft. above the rail.

K-B Pulverizer. K-B Pulverizer Co., Inc., 86 Worth St., New York. Folder. Pp. 4. Illustrated.

Mikado Type Locomotives. Baldwin Locomotive Works, Philadelphia, Penn. Record No. 83. Pp. 32; 6x9 in. Illustrated.

Overhead Carrying Devices. New Jersey Foundry and Machine Co., 90 West St., New York. Catalog 88. Pp. 48; 6x9 in. Illustrated. This catalog describes the tracking, trolleys, hoists, cranes, cars, etc., made by the company.

Steam and Electric Shovels, Dredges, Excavators, Etc. Bucyrus Co., South Milwaukee, Wis. Catalog No. 15. Pp. 40; 6x9 in. Illustrated.

The Indestructible Roof. Federal Cement Tile Co. 905-7 Fort Dearborn Bldg., Chicago, Ill. Pp. 68; 7x8½ in. This describes the reinforced cement tile made by this company and its application to various buildings.

Vitrified Roofing Tiles. The Akron Roofing Tile Co., Akron, Ohio. Catalog. Pp. 24; 8x9 in. In addition to roofing tiles this shows crestings, finials and hip rolls and floor tile.

"Watch Your Sand." The Concrete Appliances Co., Inc., 149 Broadway, New York. Appliance Bulletin No. 2. Pp. 12; 4x9 in. This contains information about sand and describes the Universal Sand Tester made by this company.

In Portuguese East Africa, Mozambique Province, according to the Department of Foreign and Domestic Commerce the governor general is planning for a further loan of $15,000,000 to be spent on the ports and railways of the Province. A railway is to be constructed from Mozambique, running inland and tapping a magnificent agricultural country. It is also planned to extend the Quelimane Railway to Port Herald and Lake Nyassa; also to continue the Moamba-Xinavane Railway across the Incomati River, through Gazaland, across the Limpopo River, and to connect it with the Inhambane Railway, thus forming the first link in a line extending through the Province and up the coast.

The F. W. Mark Construction Co. has opened an office in Philadelphia, Penn., 1701 Finance Bldg., to obtain contracts in this locality.

1915 Lumber Cut by Species—The statement of the 1915 lumber cut by species is announced by the Forest Service today. The table gives the incomplete reported cut of each principal species and the probable total cut of each included in the computed total production of lumber of all kinds, 37,013,294,000 bd.ft., which was announced the last of April.

The total figures for exclusive Western species were carefully worked out by the Forest Service Western offices, which are very familiar with the mills in their respective districts, while the rounted totals for Eastern species were worked up by the Washington office, which obviously cannot be as familiar with the many thousand mills east of the Rocky Mountains.

The probable grand total 1915 cut, assuming more mills active than could consistently be considered in arriving at the computed total, is believed to be not more than 38,000,000,000 ft.

The reported cut of lath in 1915 was 2,745,134,000 and it is estimated that the total cut was 3,250,000,000. The reported cut of shingles was 8,459,378,000 and the estimated total cut 9,500,000,000.

The average 1915 value of each principal kind of lumber reported by the mills are also given. The figures are preliminary rounded values, but are based on the data reported by mills in the principal states producing each kind of lumber, and are therefore very close to the final averages to be announced later:

Kind of Wood	Probable Total M Ft.	Reported M Ft.	Value Per M
Yellow pine	14,700,000	12,177,335	$12.50
Douglas fir	4,431,249	4,121,897	10 50
Oak	2,970,000	2,070,444	19.00
White pine	2,700,000	2,291,480	18.00
Hemlock	2,275,000	2,026,460	13 00
Western pine	1,293,985	1,252,244	14 50
Cypress	1,100,000	926,758	20 00
Maple	900,000	771,223	15 00
Red gum	655,000	478,099	12 50
Chestnut	490,000	399,473	16.00
Yellow poplar	464,000	377,386	22.50
Redwood	420,294	418,824	15.50
Cedar	420,000	352,482	15 50
Birch	415,000	355,328	16 50
Larch	375,000	348,428	11.00
Beech	360,000	303,835	14 00
Basswood	260,000	207,607	19 00
Elm	210,000	177,748	17.00
Ash	190,000	159,910	22.50
Cottonwood	180,000	138,282	17 50
Tupelo	170,000	153,001	12.00
White fir	125,048	121,653	11.00
Sugar pine	117,701	115,109	....
Hickory	100,000	86,015	23 50
Balsam fir	100,000	71,358	14.00
Walnut	90,000	65,144	....
Lodgepole pine	26,486	22,672	13 00
Sycamore	25,000	19,729	14 00
All other kinds	49,531	37,826	....
Total	37,013,294	51,241,734	

The Chamber of Commerce of the U. S., states that manufacturing is practically everywhere in excellent condition with factories full of orders, the committee reports, labor fully employed and the products commanding high prices. The only exceptions are where strikes prevail. The lumber industry varies from poor to good in different sections, according to various local conditions. On the Pacific Slope complaint is made of lack of export market and of shipping facilities, while in the southwestern portions of the country the story is the lack of orders in some cases and in others the lack of cars to move the product. As a whole, the industry is in better shape than for many years. Stone and mable quarries of all descriptions are very busy. This is not true of slate, which is generally dull. The building industry is reported to be in generally excellent shape. It is, in the opinion of the committee, the best barometer of general business, since building in the country districts means the extensive use of materials in almost every line of commercial business. Despite the high prices of material, the committee report concludes, the building outlook continues good.

PAVING, NEWARK, N. J.

Bids were received Aug. 10 by city for paving Ave. R from Peddie St. to Lincoln Highway from (A) NEW YORK & NEW JERSEY CONSTRUCTION CO., Newark (awarded contract); (B) Van Keuren & Son, Harrison; (C) O'Gara & McGuire, Newark; W. J. Coughlin, Jersey City, $239,150; Holbrook, Cabot & Rollins Corporation, $247,260. The item bids of the 3 lowest bidders were as follows:

	A	B	C
370,000 cu.yd. embankment	$0.37	$0.47	$0.58
10,375 lin.ft. 4x10-in. yellow pine planking per M ft. b.m.	40.00	52.00	45.00
4,500 lin.ft. short leaf yellow pine piles	.18	.35	.41
420 lin.ft. 12x12-in. yellow pine caps and guard timbers	50.00	57.00	45.00
1,470 lin.ft. 8x14-in. yellow pine stringers	50.00	52.00	45.00
8 M. ft. b.m. 2x10-in. yellow pine flooring	40.00	57.00	55.00
2,400 lin.ft. 2x8-in. yellow pine planking for guard fences	35.00	55.00	45.00
400 lin.ft. 4x6-in. yellow pine posts	40.00	55.00	45.00
250 lin.ft. 4-in. reinforced-concrete pipe	7.00	4.75	11.00
250 lin.ft. 5-in. reinforced-concrete pipe	9.00	6.25	12.50
170 lin.ft. 5x5 ft. reinforced-concrete culvert	10.00	20.75	10.50
1,340 lin.ft. 6x12-in. yellow pine grillage timber	50.00	55.00	45.00
6,030 lin.ft. 3x12-in. yellow pine grillage planking	40.00	55.00	45.00
Extended totals	$147,534	$186,968	$228,461

CALUMET INTERCEPTING SEWER, CHICAGO, ILL.

Contract No. 7

Bids were received by the Sanitary District of Chicago, Aug. 3, for Contract No. 7 of the Calumet Intercepting Sewer from (A) T. J. Forschner Contracting Co., Lemont; (B) H. J. McNichols Co., Chicago; (C) Nash-Dowdle Co., Chicago. The item bids were as follows:

	A	B	C
8,200 lin.ft. spoil area furnished concrete sewer, 16x16 ft.	$70.00	$72.00	$74.00
8,200 lin.ft. spoil area furnished brick and concrete sewer, 16x16 ft.	80.00	80.50	80.00
8,200 lin.ft. spoil removed by contractor concrete sewer, 16x16 ft.	71.00	74.00	76.00
8,200 lin.ft. spoil removed by contractor brick and concrete sewer, 16x16 ft.	81.00	82.50	84.50
2,470 lin.ft. spoil area furnished concrete sewer, 16x13.4 ft.	60.00	63.00	68.00
2,470 lin.ft. spoil area furnished brick and concrete sewer, 16x13.4 ft.	70.00	70.50	76.00
2,470 lin.ft. spoil removed by contractor concrete sewer, 16x13.4 ft.	61.00	65.00	78.00
2,470 lin.ft. spoil removed by contractor brick and concrete sewer, 16x13.4 ft.	71.00	72.50	82.00
600 lin.ft. spoil area furnished concrete box sewer, 16x13 ft.	60.00	62.50	68.00
600 lin.ft. spoil removed by contractor concrete box sewer, 16x13 ft.	61.00	64.50	70.00
12 manholes on 16x16-ft. sewer, concrete	90.00	60.00	60.00
12 manholes on 16x16-ft. sewer, brick	90.00	60.00	70.00
5 manholes on 16x13.4-ft. sewer, concrete	90.00	60.00	60.00
5 manholes on 16x13.4-ft. sewer, brick	90.00	60.00	70.00
1 manhole on 16x13-ft. sewer, concrete	50.00	60.00	60.00
1 manhole on 16x13-ft. sewer, brick	50.00	60.00	70.00
Change of section at controlling works (lump sum)	200.00	500.00	400.00
Overflow chamber at Wentworth Ave. (lump sum)	20,000.00	18,500.00	9,000.00
Gaging chamber (lump sum)	4,000.00	3,300.00	500.00
Crossing at Michigan Ave. (lump sum)	3,000.00	4,800.00	1,500.00
Crossing under P.C.C. & St.L.R.R. (required) (lump sum)	4,000.00	1,500.00	1,450.00
Crossing under P.C.C. & St.L.R.R. (optional) (lump sum)	500.00	3,500.00	5,600.00
Connection at Halsted St. (lump sum)	1,500.00	1,350.00	500.00
10 Tile pipe for future connections 18 in.	3.00	10.00	2.00
25 Tile pipe for future connections 12 in.	2.00	5.00	1.00
100 lin.ft. laying 15 in. tile pipe	2.00	2.00	1.50
1,500 lin.ft. laying 12-in. tile pipe	1.75	1.75	1.00
100 lin.ft. laying 9-in. tile pipe	1.50	1.00	.75
850 lin.ft. laying 6-in. tile pipe	1.00	.75	.65
12 manholes on tile pipe sewers	70.00	40.00	40.00
1 catch basin	60.00	75.00	50.00
10 water service connections	15.00	15.00	10.00
50 lin.ft. relaying water service pipes	1.50	2.00	1.25
2,000,000 lb. reinforcing steel	.04½	.4½	.03
12,000 lb. structural steel	.06	.06	.06
20,000 lb. iron castings	.06	.05	.05
500 lin.ft. additional piling furnished	.30	.20	.30
500 lin.ft. additional piling driven	.30	1.00	.40
5 M ft. b.m. cribwork on piling	50.00	50.00	55.00
5 M. ft. b.m. stop plank woodwork, etc.	100.00	60.00	70.00
160 M. ft. b.m. plank roadway	40.00	40.00	38.50
4,000 cu.yd. additional excavation of spoil	.60	.75	.30
20 cu.yd. rubble stone	4.00	10.00	5.00
3,000 lin.ft. moving fences	.20	.15	.50
5 M. ft. b.m. sheeting, shoring and bracing left in place	20.00	20.00	20.00
1 M. ft. b.m. plank foundation	25.00	25.00	25.00
5 cu.yd. additional earth excavation, open cut	.75	.75	.75
5 cu.yd. rock excavation	3.00	3.00	3.00
5 cu.yd. additional concrete, Class A	8.00	8.00	8.00
5 cu.yd. additional concrete, Class B	7.50	7.50	7.50
5 cu.yd. additional concrete, Class C	7.00	7.00	7.00
5 cu.yd. additional brickwork	9.00	9.00	9.00
Extended totals for concrete sewer spoil area furnished	$900,761	$925,853	$920,561
Extended totals for brick and concrete sewer spoil area furnished	1,007,461	1,014,078	989,701
Extended totals for concrete sewer spoil removed by contractor	912,031	948,393	962,861
Extended totals for brick and concrete sewer spoil removed by contractor	1,018,731	1,036,618	1,042,621

The Corrugated Bar Co., Mutual Life Bldg., Buffalo, N. Y., has further organized with the following officers: A. C. Garrison, Pres.; A. L. Johnson, Vice-Pres. and Gen. Mgr.; W. H. Kennedy, Vice-Pres. and Treas.; R. McCarty, Secy.; A. E. Lindau, Mgr. of Sales. These changes are effective Sept. 1.

INTERCEPTING SEWER, NEWARK, N. J.—Section 22

Bids were received by Passaic Valley Sewerage Commissioners for Section 22 of Intercepting Sewer, Lawrence St. branch, Paterson, from (A) Cenedella & Co., Passaic; (B) CULP CO., INC., Paterson (awarded contract). The item bids were as follows:

	A	B
350 lin.ft. earth excavation and refilling in trench for 36-in. concrete sewer	$6.25	$8.40
2,215 lin.ft. earth excavation and refilling in trench for 30-in. concrete sewer	5.00	8.00
670 lin.ft. earth excavation and refilling in trench for 15-in. vitrified pipe sewer	4.50	5.00
390 lin.ft. earth excavation and refilling in trench for 12-in. vitrified pipe sewer	4.00	4.00
340 lin.ft. earth excavation and refilling in trench for 8-in. vitrified pipe sewer	3.00	3.00
1,200 cu.yd. concrete masonry	10.50	8.00
250 cu.yd. brick masonry	17.00	01
50 cu.yd. rock excavation in trench	6.00	6.00
Excavation and refilling for special structures in local sewers (lump sum)	8,000.00	7,910.00
Furnishing and installing 8-set sewage regulating apparatus (lump sum)	600.00	560.00
Furnishing and installing back-water gates in local sewers (lump sum)	3,600.00	1,575.00
Extended totals	$48,207	$46,537

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.—Duct Line

Bids were received by Public Service Commission, 120 Broadway, July 17, for Walton Ave and 157th St. duct line, Seventh Avenue-Lexington Avenue Rapid Transit R.R., from (A) T. H. Reynolds Construction Co.; (B) Robert Benenson; (C) Beaver Engineering and Contracting Co.; L. T. Moran, $11,813; Thomas Crimmins Contracting Co., $12,318; Henry Fox Contracting Co., $13,732; Thomas H. Brown, $13,836; Thomas Dwyer, $14,987; G. M. Gest, $15,522; Rice & Ganey, $16,777. The item bids of the 3 lowest bidders were as follows:

	A	B	C
900 cu.yd. earth excavation	$1.00	$3.50	$1.15
300 cu.yd. rock excavation	2.50	3.50	1.50
75 cu.yd. concrete masonry	9.00	8.00	8.00
15 cu.yd. brick masonry	12.00	10.00	12.00
250 lin.ft. 4-in. vitrified pipe	1.00	.35	.10
43,200 duct. ft. railroad ducts	.16	.12½	.19
Removing manhole roof, etc	20.00	25.00	300.00
2 ton steel beams and shapes	90.00	80.00	70.00
1 ton steel rods and bars	100.00	60.00	60.00
3 tons miscellaneous iron castings	75.00	80.00	50.00
600 sq.yd. all street surface restored	.05	.10	.10
100 lin.ft. restoring old curb	.15	.25	.05
100 lin.ft. 12-in. vitrified pipe sewer	.05	.01	.25
100 lin.ft. 15-in. vitrified pipe sewer	.05	.05	.35
100 lin.ft. 18-in. vitrified pipe sewer	.05	.05	.45
100 lin.ft. 6-in. water pipe	.05	.05	.10
100 lin.ft. 12-in. water pipe	.05	.05	.15
10 water service connections	.50	.10	1.00
100 lin.ft. 24-in. gas pipe	.05	.10	.25
10 gas service connections	.50	.10	1.00
2 ton new c.-i. hub and spigot straight pipe	2.50	50.00	35.00
1 ton new c.-i. hub and spigot pipe, special castings	5.00	50.00	65.00
200 duct ft. electric ducts and conduits	.05	.12½	.20
10 electric service connections	.50	.25	1.00
100 duct ft. fibre electric ducts and conduits	.05	.12½	.25
Extended totals	$10,307	$11,121	$11,598

RESERVOIR, WILMINGTON, DEL.

Bids were received by Board of Water Commissioners for constructing the Rodnet St. Reservoir from (A) WILLIAMS & KINNAMAN, Baltimore (awarded contract); (B) Suburban Engineering Co., New York; (C) J. F. Rogers Co.; C. B. Clark Co., $152,909; Scheidenhelm Construction Co., $159,945; W. J. Coughlin, $163,044; Whiting-Turner Construction Co., $164,189; J. E. Bunting Co., Inc., $173,576; Edward L. Bader, $178,226. The item bids of the 3 lowest bidders were as follows:

	A	B	C
22,000 cu.yd. earthwork	$0.87	$0.65	$0.67
20 cu.yd. rock excavation	2.50	5.00	3.50
Rolling reservoir foundation (lump sum)	200.00	250.00	200.00
475 cu.yd. cinder fill	1.00	1.60	1.00
8,000 cu.yd. stone concrete	8.35	10.00	10.80
44 cu.yd. cinder concrete	8.35	15.00	10.00
3,800 cu.ft. granolithic floor surfacing	.06	.06	.06
550,000 lb. steel reinforcement	.048	.054	.045
Piping, valves, and castings (lump sum)	6,500.00	8,400.00	7,950.00
Miscellaneous w.i. and 3,000 lb. steel work	.15	.15	.08
Fences and railings (lump sum)	3,500.00	2,750.00	2,300.00
2,500 lin.ft. laying electric conduits	.03	.15	.125
2,930 sq.yd. asphalt pavement	1.10	1.20	1.40
sq.yd. brick pavement	1.72	1.20	2.40
Shelter (lump sum)	1,800.00	2,000.00	2,140.00
Gate house (lump sum)	2,500.00	2,300.00	1,400.00
725 lin.ft. stair treads	.75	.40	.45
Seeding (lump sum)	80.00	120.00	245.00
5,000 sq.yd. sodding	.25	.30	.40
Extended totals	$134,713	$148,509	$149,960

The State Highway Department, Harrisburg, Penn., received a practical offer of co-operative assistance in road building from a corporation engaged in business in this state. The Maintenance Division of the State Highway Department had ordered 750 tons of cinders at the market price of 7c. a ton from the New Jersey Zinc Co. of Pennsylvania, located at Palmerton, Carbon County. A letter was received from the company sending back the requisitions and stating that they desired to have them reissued inasmuch as the company would be glad to furnish the cinders free. The Supply Agent for the company added that this company was greatly interested in improving roads and would be glad to be able to help the State Highway Department out with this material.

The Studebaker Municipal Utilities Co., South Bend, Ind., has been organized to take over the Ottofy and various other patents covering the modern art of street flushing. The Ottofy patent has been under litigation for more than five years but the claim has been sustained by the courts. Flushers manufactured under these patents will in the future be marketed through the Vehicle Division of the Studebaker organization.

Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Massachusetts—New York, New Haven & Hartford R.R. soon receives bids for enlarging cut to freight terminals, Boston, about $800,000. E. Gagel, New Haven, Ch. Engr. Noted July 6.

New York—New York State Rys. (Syracuse Lines), to double-track Euclid Ave. and portion Oak St. lines, Syracuse. B. E. Tilton, Syracuse, Gen. Mgr.

Pennsylvania—Northern Montour R.R., subsidiary Pittsburgh Coal Co., applied to State Pub. Utilities Comn., Pittsburgh, for approval of charter for line from Robinson Township, Washington County, to Ohio state line, about 35 mi.

Pennsylvania—Philadelphia & Reading Ry. plans to lower grades on New York Div. between Hopewell and Ewing, also to lay 2 additional tracks. S. T. Wagner, Philadelphia, Ch. Engr.

Maryland—Cumberland Electric Railway Co. applied for franchise to extend line on Green St., Cumberland. G. L. Wellington, Cumberland, Pres. Noted May 25.

Maryland—Washington, Westminster & Gettysburg Railroad Co. applied to Pub. Ser. Comn., Baltimore, for permission to sell $630,000 bonds for line from Hyattsville, Md., to Gettysburg, Penn.

West Virginia—W. B. Cornwell and associates plan standard-gage freight railway from point in Shenandoah Valley to Wardensville.

West Virginia—Baltimore & Ohio Railroad Co. plans new spur west of Simpson to open up block of Pittsburgh coal land. F. L. Stuart, Baltimore, Ch. Engr.

North Carolina—Carolina & Yadkin River Ry. plans to extend line from High Point to Mt. Gibson. E. C. Deal, Greensboro, Vice-Pres. and Ch. Engr.

North Carolina—Toxaway Western Railway Co. granted charter for line from Lake Toxaway to Sapphire, about 4 mi. J. Meltz, Williamsport, Penn., and H. C. Jarvis, Asheville, Dir. Noted Aug. 2.

South Carolina—South Carolina Light, Power and Railways Co. plans to extend line from Spartansburg to Whiting Mills, also to rebuild line between Clifton No. 1 and No. 2. F. C. Knox, Spartansburg, Vice-Pres. and Gen. Mgr.

Georgia—Chatham Terminal Co., Savannah, applied for charter for railway from connection of line of Central of Georgia Ry. to property of Savannah Warehouse and Compress Co., about 3 mi. C. W. Small, Savannah, interested.

Georgia—Georgia Railway and Power Co. plans electric line from Atlanta to Augusta. G. M. Brine, Atlanta, Gen. Mgr.

Florida—Hillsborough Interurban Railway Co. to let contract about November for railway from Tampa to Safety Harbor through Hillsborough and Pinellas Counties, about 60 mi. A. Viggianni 917 22nd Ave., Tampa, Engr. Noted July 27.

Florida—Jacksonville Traction Co., Jacksonville, plans to extend line on portion 8th St., about $40,000. H. Croom, Jacksonville, Local Mgr. and Pur. Agt.

Florida—West Coast Electric Railway Co. securing right-of-way for line from Tampa to Venice, via Palmetto, Bradentown, Sarasota and Bee Ridge. A. E. Townsend, Sarasota, Gen. Mgr. Noted Aug. 17.

Alabama—Anniston Railway Co. plans to extend street-car line about ½ mi. in Anniston.

Alabama—(Press)—Mobile & West Alabama R.R., incorporated in 1893, made surveys for 380 mi. line, 350 mi. of which will extend from Florence via Tuscaloosa to Mobile. Steps now being taken to finance project. J. A. Montgomery, Birmingham, Ch. Engr.

Ohio—(Press)—Pennsylvania Lines West of Pittsburgh soon receives bids for new line from Toledo to Detroit, Mich. T. Rodd, Pittsburgh, Ch. Engr.

Indiana—Terre Haute, Indianapolis & Eastern Traction Co. plans to double-track line between city limits and Indianapolis Motor Speedway, Indianapolis, about $100,000. T. F. Grove, Terre Haute, Gen. Mgr.

Illinois—Business men, Bloomington, interested in project to build interurban railway north and east from Bloomington.

Illinois—Chicago, Fox Lake & Northern Electric R.R. Co. made surveys for line from Evanston to Palatine. H. O. Strauss, Harris Bldg., Chicago, Engr.

Iowa—Atchison, Topeka & Santa Fe Ry. to spend about $250,000 for improvements at Madison. C. W. Felt, Chicago, Ch. Engr.

Montana—Surveys made for electric railway from Toston to Radersburg, 12 mi. F. Shull, interested.

Montana—Missoula St. Railway Co., Missoula, plans to extend line. G. R. Brown, Missoula, Gen. Mgr. and Pur. Agt.

California—Southern Pacific Co. making surveys for line from Crafton to Greenspot. W. Hood, San Francisco, Ch. Engr.

Ontario—Ontario Hydro Comn. making surveys for line from London to Owen Sound, about 175 mi. A. Beck, London, Chn.

Bids In and Contracts Awarded

North Carolina—Seaboard Air Line Ry. let contract for line from Hamlet to Gibson to VAUGHAN CONSTRUCTION CO., Shawsville, Va., about $200,000. Noted Aug. 17.

North Carolina—Southern Ry. let contract for change of line from Belmont to R. RUSSELL, Charlotte. Project to include 1.35 mi. new track.

Indiana—Evansville & Indiana R R. let contract about 19 mi. line change near Terre Haute to W. E. CALLAHAN CONSTRUCTION CO., Omaha, Neb. Contractors to sublet about 60,000 cu.yd. team work and 6,000 cu.yd. side hill rock work.

Illinois—Illinois Central R R. let contract raising about 5 mi. tracks on St. Louis Div., Springfield, about 70,000 cu.yd. excavation, to LYNCH CONSTRUCTION CO., Monmouth.

Wisconsin—Ettrick & Northern Ry. let contract for line from Ettrick to Blair to E. J. MATCHETT and J. RAICHLE, Osseo, $135,000. Noted Oct. 14.

Montana—Northern Pacific Ry. let contract line from Dixon to Polson to SIEMS, WICKHAM & CO.

LIGHT, HEAT AND POWER

Proposed Work

Maine, East Corinth—Bangor Railway and Electric Co., Bangor, plans substation.

Mass., Lenox—Lenox Electric Co. plans to improve plant and system, about $20,000 or $30,000. Address C. D. Parker & Co., Boston.

Conn., Norwich—City retained W. B. Rollins & Co., Engr., Kansas City, Mo., to make plans for electric-light plant. About $22,500. Noted Mar. 30.

Penn., Chester—Chester Paper Co. plans new power plant.

Penn., Topton—City votes in November on $23-000 bond issue for electric-light plant and improving water supply.

N. C., Cary—City plans $10,000 bond issue for electric-light system.

N. C., Lenoir—J. Moore and associates plan hydro-electric plant on Johns River.

N. C., Raleigh—Carolina Power and Light Co. plans dam and hydro-electric plant at Little Mill site on Beaver River. P. A. Tillery, Raleigh, Ch. Engr.

S. C., Camden—City votes Sept. 12 on $7 000 bonds for electric-light plant. C. H. Yates, Mayor.

S. C., Due West—Due West Water, Light and Power Co. organized to install electric power plant, about $8,000. R. H. Brice, Mgr.

Ga., Cave Spring—City plans electric-lighting system.

Fla., Bowling Green—City to install electric-lighting system.

Ky., Mt. Sterling—(Press)—Kentucky Utilities Co. plans to improve plant at Mt. Sterling.

Ohio, Fostoria—Ohio Light and Power Co. plans to extend system to northwestern section of Seneca County.

Ohio, Medina—Ohio Gas and Electric Co. granted franchise to install electric-light and power plant in Medina.

Ohio, Perrysville—Bd. Trustees receives bids for improving electric-light plant.

Ind., Danville—American Pub. Utilities Co., Grand Rapids, Mich., purchased plant of Danville Light, Heat and Power Co. and will improve same and extend system.

Ind., Hobart—City plans to improve electric-light plant. M. H. Owens, Supt.

Ind., La Porte—Comrs. La Porte County making plans for 1-story power plant. About $10,000. F. Hausheer, Court House, La Porte, County Audr. Noted Aug. 3.

Ind., Newburg—Thornton Home for Disabled Presbyterian Ministers making plans for power plant, laundry and boiler house. C. Shopbell & Co., 707 Furniture Exchange Bldg., Evansville, Arch.

Ill., Fisher—See item under "Water-Works."

Wis., Elkhorn—Wisconsin Butter and Cheese Co. plans to improve power plant. T. Watson & Co., 1412 Majestic Bldg., Milwaukee, Engr.

Neb., Scotia—See item under "Water-Works." Noted July 27.

Tex., Miami—City Council plans electric-light plant.

Tex., O'Donnell—S. T. Singleton plans electric-light and power plant.

Tex., Victoria—C. H. Kellam applied to City Council for franchise for gas manufacturing plant and distributing system.

Wash., Spokane—Spokane Valley Power Co. plans power plant. About $1,500,000. H. A. Stoolfire, Secy.

Ore., Joseph—Joseph Light and Power Co. purchased by Enterprise Electric Co., Enterprise, for $57,500. New owners plan transmission line from Joseph to Enterprise. L. M. Simpson, 521 1st Ave., Spokane, Gen. Mgr.

Man., Grand Rapids—See item under "Miscellaneous."

Bids In and Contracts Awarded

Conn., Eagleville—(Storrs)—Connecticut Agricultural College let contract 1-story, 45x75-ft. power house to H. WALES LINES CO., Meriden.

N. Y., Watertown—New York Air Brake Co. let contract 2-story, 83x86-ft. power house to GUARANTEE CONSTRUCTION CO., 140 Cedar St., New York.

Mich., Kalamazoo—Monarch Paper Co. let contract dam to B. DOUGLASS CO., Ann Arbor.

N. D., Jamestown—Western Electric Co. let contract power house and smokestack to JORGENSON & KLARQUIST, St. Paul. About $40,000. Noted July 20.

Calif., Alameda—Union Iron Works, San Francisco, let contract power house at plant at Alameda to LANGE & BERGSTROM, Sharon Bldg., San Francisco, $25,990.

Que., Sherbrooke—(Official)—City let contract concrete dam at hydroelectric plant to T. L. MAC BEAN and M. L. WILLIAMS, Montreal. About $62 858. Noted Aug. 3.

BRIDGES

Proposed Work

N. Y., Buffalo—(Official)—Comr. Pub. Wks. receiving bids Sept. 12 for bascule bridge over Buffalo River. G. H. Norton, City Engr. Noted Aug. 10. (See adv. in Aug. 17 issue.)

N. Y., Buffalo—City making plans for viaduct over Louisiana St. and Erie R.R. Edward B. Guthrie, 436 Ellicott Sq., Engr.

N. Y., Ft. Plain—City plans bridge across Otsquago Creek at Valley Brook. About $9,000.

N. Y., Leicester—Bd. Supvrs. passed resolution to issue $5,000 bonds for replacing bridges destroyed by floods.

N. J., Newark—Board Chosen Freeholders soon receives new bids for repairing Lincoln Highway bridge over Hackensack River. Noted July 13.

N. J., Newark—(Official)—City receiving bids Aug. 31 for steel railroad bridge over Central Railroad of New Jersey, at Port St. M. R. Sherrerd, Ch. Engr. (See adv. Aug. 17 issue.)

N. J., Newark—County making plans for concrete bridges on Northfield and Swamp Rd. Address County Clk., Newark.

N. J., Trenton—Board Chosen Freeholders plans bridge over Carr's Brook, Hopewell Township.

Penn., Glassport—County Comrs. plan bridge over Monongahela River between Glassport and Wilson. Address County Clk., Glassport.

Penn., Harrisburg—City made plans for bridge across tracks of Pennsylvania R.R. at Walnut St. About $300,000. Greiner & Whitman, Baltimore, Md., Arch. Noted May 25.

Penn., Johnstown—City plans steel and concrete bridge between 8th and 17th wards.

Penn., Swarthmore—Delaware County Comrs. plan steel and concrete bridge over Crum Creek at Victoria Plush Mills. Address County Clk., Media.

Penn., York—County Comrs. receiving bids Sept. 5 for rein.-con. arch bridge over Codorus Creek on Logansville Rd., concrete arch bridge over Kreutz Creek, stone arch bridge over Otter Creek. Address County Clk., York. Noted July 27.

Va., Independence—(Official)—County receiving bids Aug. 30 for concrete bridge over Wilson Creek near Troutdale. Address County Clk., Independence.

W. Va., Huntington—County Comrs. plan concrete and steel bridge to connect Harveytown and Harrison Ave. Address County Clk., Huntington.

W. Va., Middlebourne—(Official)—County Court receiving bids Sept. 1 for 3 concrete bridges. Address County Clk., Middlebourne.

N. C., Asheville—Buncombe County Comrs. plans bridge near Craggy. Address County Clk., Asheville.

Bridges (Continued)

N. C., Hendersonville—Henderson County plans expenditure of $5,000 for repairing bridges. Address County Clk., Hendersonville.

N. C., Rutherfordton—County Comrs. plans bridges. Address County Clk., Rutherfordton.

Ga., Americus—Sumter County Comrs. plan bridge across Flint River at Huguenins Ferry.

Fla., Miami—Dade County Comrs made plans for bridge over Biscayne Bay. Address County Clk., Miami. Noted Aug. 10.

Fla., St. Petersburg—City plans bridge across Old Tampa Bay from St. Petersburg to Tampa. About $1,000,000.

Ala., Clayton—Barbour County making plans for concrete bridge over Chahanatchie Creek. R. P. Boyd, Asst., State Highway Engr., Montgomery.

Ala., Tuscaloosa—Bd. Trade plans bridge across Warrior River.

Miss., Bay St. Louis—City plans bridge across Bay St. Louis Bay.

Miss., Holly Springs—Marshall County receiving bids Sept. 5 for 2 bridges. C. H. Wright, Holly Springs, Clk. Noted Aug. 3.

Miss., Lucedale—George County Supvrs. plan to issue $90,000 bridge and road bonds.

La., Boyce—Austin Bridge Co. plans bridge across Red River.

Tenn., Clifton—County Court authorized appropriation for bridge across Roach Creek. Address County Clk., Clifton.

Tenn., Waverly—(Official)—Nashville, Chattanooga & St. Louis Ry. does not plan to build viaduct on Waverly-McEwen Rd. as noted Aug. 3.

Ohio, Akron—County made plans for bridge at Johnson's Corners. About $5,000. Address County Clk., Akron. Noted Jan. 20.

Ohio, Akron—City voted $1,200,000 bonds for North Hill Viaduct. J. A. Gehres, City Engr. Noted June 29.

Ohio, Bucyrus—County Comrs. plan bridge across Sandusky River at Gay St. Address County Clk., Bucyrus.

Ohio, Cleveland—Board Comrs. receiving bids Sept. 6 for completing Detroit-Superior Ave. bridge. William A. Stinchcomb, Cleveland, County Surv. Noted Aug. 17.

Ohio, Columbus—County Comrs. receiving bids Sept. 1 for Bid Run bridge on Brown Rd. Franklin Township.

Ohio, Eaton—Bd. County Comrs. receiving bids Aug. 30 for 2 bridges. G. W. Rehfuss, Eaton, County Audr.

Ohio, Troy—County Comrs. passed resolution for rein.-con. bridge over Stillwater Creek west of Covington. About $18,000. Address County Clk., Troy.

Ohio, Urbana—City soon receives bids for Dugan St. bridge. About $10,000. F. E. Sweetman, City Engr. Noted July 27.

Ind., Decatur—County Comrs. receiving bids Sept. 6 for Kack Bridge, Monroe Township. T. Baltzell, Decatur, Audr. Noted Aug. 3.

Ind., Kokomo—County Comrs. soon to receive bids for 12 bridges over big ditches. Address County Clk., Kokomo.

Mich., Bear Lake—County plans bridge over Manistee River. About $6,500.

Ill., Kankakee—County soon receives bids for bridge across Kankakee River between Kankakee and Will Counties. About $50,000. Address County Clk., Kankakee. Noted June 22.

Wis., Sheboygan—City making plans for viaduct over South 14th St. About $50,000. C. U. Boley, City Engr.

Minn., Blue Earth—County made plans for bridges Nos. 2321, 2322, 2323 and 2324. John Flynn, Blue Earth, County Audr.

Minn., Ellendale—State Highway Comn. making plans for Bridge No. 2233, Bath Township. C. E. Brainard, Ellendale, County Audr.

Kan., Leavenworth—City plans bridge over Atchison, Topeka & Santa Fe tracks at Penn, Michigan and Ohio Ave. H. A. Perkins, City Engr.

Kan., Manhattan—County receiving bids Sept. 22 for 2 concrete span bridges over Blue River. J. E. Williams, Manhattan, County Engr.

S. D., Brookings—County receiving bids Sept. 5 for repairing bridges. F. H. Ribley, Brookings, County Audr.

S. D., Salem—County receiving bids Sept. 5 for 5 concrete bridges. C. F. Erickson, Salem, County Audr.

S. D., Watertown—County receiving bids Sept. 5 for material for county bridges. J. S. Johnson, Watertown, County Audr.

Mont., Missoula—County Comrs. soon receives bids for bridge across Rock Creek near Bonita. D. McQuarrie, Missoula, Chn. County Comrs. Noted May 4.

Mo., Crystal City—City plans wooden bridge to connect Old and New Crystal.

Ark., Blytheville—City plans bridge over Buford Lake.

Wash., Seattle—City plans bridge over West Waterway at Spokane St.

Ore., La Grande—Oregon-Washington Railroad and Navigation Co. is making plans for bridge S. Murray Portland, Ch. Engr.

Calif., Quincy—Plumas County receiving bids Sept. 4 for 2 rein.-con. bridges. About $10,000 and $7,500. Leonard & Day, Rialto Bldg., Quincy.

Calif., Santa Barbara—Bd. County Supvrs. plans concrete bridge at Arroyo Burro on Modoc Bd. About $5,000. Address County Clk., Santa Barbara.

Ont., Harrow—Council plans rein.-con. bridge. About $8,000. T. W. Crowe, Clk.

Bids In and Contracts Awarded

Mass., Holyoke—City let contract steel and concrete foot bridge to LOUIS J. SIELING, 171 Madison Ave., New York. About $18,371. Noted Aug. 3.

Conn., Windsor—City let contract steel railroad bridge to UNITED CONSTRUCTION CO., Albany, N. Y. About $20,000.

N. Y., Cuba—Erie R.R. Co. let contract viaduct over Orchard St. Creek to ROBERT GRACE CONSTRUCTION CO., Pittsburgh. About $50,000.

N. Y., Portage—County let contract bridge over Genessee River to CLEVELAND & SONS, Brockport. About $24,720.

Penn., Harrisburg—City let contract repairing Lyonsville bridge to McILVAIN & CO., Chambersburg.

Penn., New Castle—(Official)—County let contract rein.-con. bridge over Hitterbaguh Run, Hickory Township, to GEORGE AXE, New Wilmington, Penn. About $4,268.

Penn., Uniontown—County let contracts bridges as follows: LOUIS COSTA, Dickerson Run, 4 bridges, about $10,844; BROOKE & CORNISH, Uniontown, about $9,203; WHITTAKER & DIEHL, Harrisburg, about $5,286. Noted July 27.

N. C., Asheville—Buncombe County Comrs. let contract iron bridges to ROANOKE IRON AND BRIDGE WORKS, Roanoke.

N. C., Charlotte—City let contract bridge on Morehead St. over Sugar Creek to J. W. HAAS, Charlotte.

N. C., Raleigh—City let contract viaduct over tracks of Southern Ry. on West Martin St., concrete, to RALEIGH ENGINEERING AND CONTRACTING CO., Raleigh. About $30,601. Noted Aug. 3.

Ga., Gainesville—County let contract 2 steel bridges over Chattahoochee River to INTERNATIONAL BRIDGE AND IRON CO., Evansville, Ind. About $4,612. Noted Aug. 3.

Fla., Clearwater—Pinellas County Comrs. let contract bridge over Mullett Creek at Safety Harbor to J. B. McCRARY CO., Atlanta Ga. Noted Mar. 30.

Ala., Heflin—(Official)—City let contract steel bridge over Tallapoosa River to DODSON & OLIVER, Montgomery. About $4,444. Noted Aug. 3.

Miss., Macon—County let contract 4 bridges to J. R. SCRUGGS CONSTRUCTION CO., Birmingham, Ala.

Ohio, Canton—(Official)—Stark County let contract Wabash Ave. bridge abutments over Sugar Creek to JACOB SCHISLER, Canton. About $4,631. Noted Aug. 10.

Ohio, Dayton—(Official)—County let contract Upper Miamisburg Bridge to I. E. SMITH, Richmond, Ind. About $49,512. Noted Aug. 3.

Ohio, Dayton—City let contract Jackson station bridge to DAYTON CONSTRUCTION CO. About $6,670.

Ill., Highland Park—See item under "Streets and Roads."

Ill., Quincy—Board Pub. Wks. received low bids for new bridge at 29th and Maine St. from Dempsey Construction Co., about $5,000 and Menke Stone and Lime Co., stone, about $4,642, rein.-con., $4,693.

Wis., Beloit—City Bridge Com. rejected bids for Rock River bridge on 4th St. G. E. Heebink, City Engr. Noted Apr. 27.

Iowa, Charles City—County let contract 4 bridges to C. E. HUGHES, Charles City. About $11,857.

Iowa, Council Bluffs—City let contract Oakland bridge over Nishnabotna River on White Pole Rd. to F. E. MARSH & CO., Des Moines. About $7,254.

Iowa, Elkader—City received low bids for culverts from A. C. Boyle, McGregor, about $11,800; Dubuque B. B. Works, Dubuque, about $4,300.

Minn., Big Falls—City rejected bids for 2 bridges over Billy and Beaver Brooks.

Kan., Topeka—(Official)—County let contract Baltimore truss bridge over Soldier Creek to NOLLEN & ROACK, McFarland, about $12,950. Noted Aug. 3.

Mont., Miles City—(Official)—County let contract steel bridge over Sunday Creek to SECURITY BRIDGE CO., Billings. Noted July 27.

Ark., Marion—County Comrs. let contract temporary viaduct to connect Harahan Bridge with St. Francis Levee to BALL & PETERS, Little Rock. About $150,000. Noted July 27.

Tex., Dalhart—(Official)—County let contract steel bridge over Perice Draw near Texline to AUSTIN BROS., Dallas. About $4,600. Noted Aug. 3.

Okla., Claremore—County Comrs. let contract bridge across Verdigris River to MISSOURI VALLEY BRIDGE AND IRON CO., Leavenworth, Kan., about $20,727. Noted Mar. 2.

Okla., Tulsa—County Comrs. let contract 4 steel bridges to CANTON BRIDGE CO., Canton, Ill. About $6,800. Noted July 20.

Colo., Dolores—City let contract span bridge over Dolores River to MISSOURI VALLEY BRIDGE CO., Dallas, Tex. About $5,300.

Calif., Baird—State Highway Comn., Sacramento, let contract bridges in Shasta County to ROSS CONSTRUCTION CO., Sacramento. About $24,676. Noted July 27.

Calif., Berkeley—City let contract concrete culvert across Codornices Creek at Ordway St. to MICHAEL HEAFEY, 2320 McKinley St., Berkeley. Noted Feb. 10.

Calif., Oakland—Bd. Supvr. of Alameda County let contract bridge over Crow Cañon Creek to WESTERN CONSTRUCTION CO., Russ Bldg., San Francisco. Noted Feb. 3.

Calif., Santa Barbara—City let contract rein.-con. bridge across Zaca Creek at Station 565-50 to W. M. LEDBETTER, Pacific Electric Bldg., Los Angeles. About $5,965.

Calif., Santa Barbara—City received low bid for rain.-con. bridge over Zaca Creek, Station 562-50 from W. M. Ledbetter, Pacific Electric Bldg., Los Angeles. About $7,470.

Calif., Vialia—Bd. Supvrs. let contract section bridge across Kings River to W. A. KETTLEWELL & SON, Kingsburg. About $31 000.

WATER-WORKS

Proposed Work

Maine, Brewer—City plans municipal water system.

N. J., Trenton—City votes Sept. 5 on $30,000 bonds for filter plant. Noted June 22.

N. J., Whitehouse—Clinton Township Comn. granted Clinton Water Co. franchise for piping streets.

Penn., Muncy—See item under "Sewers."

Penn., Reynoldsville—Borough Council petitioned Pub. Ser. Com. for municipal water system.

D. C., Takoma Park—(Washington post office)—City soon receives bids for storage reservoir, 4,000,000-gal. capacity. H. Stevens, Union Trust Bldg., Washington, D. C., Engr. Noted Apr. 13.

Va., Bristol—City plans water system.

W. Va., Wheeling—City to vote Sept. 15 on $500,000 water bonds. Noted Apr. 20.

W. Va., Wheeling—City voted $30,000 filter plant bonds.

Fla., Brooksville—City retained Hiram McElroy, Tampa, Engr., to make plans for water system. About $15,000. Noted Feb. 24.

Miss., Brookhaven—City receiving bids Sept. 12 for well A. B. Furlow, Clk.

Miss., Clinton—City defeated $7,500 bond issue for water-works. P. H. Rutherford, Supt. Noted July 13.

Miss., Plymouth—City making plans for pump and air compressor for water system. Thomas Watson Co., Majestic Bldg., Milwaukee.

La., Shreveport—City Coms. receiving bids Sept. 5 for pumping station and filter plant.

Tenn., Kingsport—City soon receives bids for water-works and sewer system. Knight & Quagle, Chattanooga, Engr.

Ky., Irvine—City plans water system. About $60 000.

Ky., Winchester—City votes in November on $180,000 water bonds.

Ohio, Cleveland—Charles P. Jaeger Comr. Water, recommends sand filter plant. About $1,500,000.

Ohio, Cuyahoga Falls—City voted $60,000 sewer bonds.

Ohio, Mansfield—City sold $27,000 water meter bonds. Hoyt Johns, City Engr. Noted July 27.

Ohio, Ravenna—City sold $60,000 water bonds. J. S. Mallette, Supt. Noted July 27.

Ohio, Rocky River—(Official)—City rejected bids for water mains in North Ridge Rd. New bids Sept. 5. Frank Mitchell, City Clk. Noted Aug. 10.

Ohio, Tiffin—Tiffin Water Co. authorized to construct dam across river.

Ohio, Upper Sandusky—Upper Sandusky Water Works Co. plans filter plant. Chester & Fleming, Pittsburgh, Penn., Engr. N. Cronewitt, Supt.

Ohio, West Park—Town receiving bids Sept. 19 for $6,000 water bonds. D. W. Nichols, Clk. Noted July 27.

Mich., Flint—City voted $400,000 filter bonds. Noted Aug. 1.

Ill., Chicago—D. H. Maurey, Engr., 55 West Jackson Blvd., retained to make plans for rein.-con. reservoir, 5,000,000-gal. capacity. About $75,000.

Ill., Fischer—City plans water system and municipal electric-light plant.

Ill., Ladd—Village to let contract Sept. 15 for sinking 16-in. well. About $8,000.

Wis., Altoona—City soon to let contract for water system. C. J. Hayden, City Clk. Noted Aug. 10.

Water-Works (Continued)

Wis., Chilton—City receiving bids Aug. 29 for $45,000 water bonds. Noted Apr. 6.

Wis., Osceola—City votes in fall on $25,000 water bonds. F. D. Staples, Clk. Noted Feb. 24.

Iowa, Allison—City plans to extend water mains.

Iowa, Mapleton—City Council approved water mains in 7th St.

Iowa, Milton—City making plans for water system. Noted July 27.

Minn., Gaylord—See item under "Sewers."

Minn., New Ulm—City soon to let contract for water system. Noted Apr. 13.

Minn., West Minneapolis—(Minneapolis post office)—See item under "Sewers."

Minn., West St. Paul—(St. Paul post office)—(Official)—City retained J. F. Druar, Consult. Engr., St. Paul, to make plans for water system. About $40,000. Noted July 27.

Kan., Arlington—City votes Sept. 2 on $10,000 water bonds. Noted Apr. 6.

Kan., Ellis—City retained Black & Veatch, Kansas City, Mo., to make plans for improving water system. About $16,000. Ray C. Gall, Supt.

Kan., Kansas City—City retained Black & Veatch, Kansas City, Mo., to make plans for water system. About $25,000. David Douglas, Supt.

Neb., Johnson—City sold $9,000 water bonds. Noted July 6.

Neb., Scotia—City receiving bids Aug. 30 for water system and electric-light plant. About $15,000. Noted July 27.

Neb., Wayne—(Official)—City receiving bids Sept. 1 for extending water system. E. Murrill, Supt. Noted Aug. 17.

S. D., Chamberlain—City receiving bids Sept. 5 for artesian well. H. Douvall, Engr.

N. D., Fargo—City approved plans for water mains in Front St. About $17,000. A. R. Watkins, City Audr. F. L. Auders, Supt. and Dist. Engr.

Mont., Thompson Falls—Thompson Falls Water Co. plans rebuilding and enlarging distribution system.

Mo., Trenton—(Official)—City votes Sept. 5 on $30,000 filter bonds. J. B. Heney, Supt. Noted Aug. 3.

Ark., Newport—Arkansas Light and Power Co. plans water-works plant.

Tex., Cumby—Cumby Water Co. plans water and distributing system.

Tex., Kingsville—(Official)—City soon receives bids for well.

Tex., Maypearl—City to vote Sept. 9 on $7,000 water bonds.

Okla., Ardmore—City soon receives bids for water system. About $45,000. Noted Aug. 17.

Okla., Tulsa—City voted $180,000 water and filter bonds, and $50,000 bonds for water mains. M. Y. McFarland, Act. Supt.

Idaho, Buhl—City voted $11,000 water bonds.

Utah, Logan—City to vote Sept. 2 on $70,000 water improvement bonds.

Ariz., Globe—City Council plans municipal water system.

Wash., Davenport—Council plans well. About $4,000.

Ore., Oregon City—City authorized $18,000 water bonds.

Calif., Glendale—City plans purchasing 1,000 tons c.-i. pipe.

Calif., Los Angeles—City to vote Sept. 15 on $200,000 water bonds. Noted Mar. 23.

Ont., Hamilton—City Council plans water mains on Main St. About $11,468. S. H. Kent, Clk.

Ont., Hamilton—City plans to spend $100,000 for improving water system.

Ont., London—Public Utilities Coms. plans 6 new pumps for pumping station.

Que., Rougemont—City retained Fabius Riel, Water Engr. to make plans for concrete reservoir and dam.

Bids In and Contracts Awarded

N. Y., Oxford—Board Mgrs. Women's Relief Corps. Home let contract water supply for Relief Corps Home to SUBURBAN ENGINEERING CO., 15 West 38th St., New York. Noted July 27.

N. Y., New York—(Richmond)—(Official)—Comr. Water Supply, Gas and Electricity, Manhattan, received low bids Aug. 17 for water mains in various streets from J. McAvoy, 315 East 127th St., $17,695; Knight & DeMicco, $18,762; Murphy Bros., $19,337. Noted Aug. 10.

Va., Richmond—City let contract water pipe, etc., to LYNCHBURG FOUNDRY CO., pig lead to HUNTER B. FRISCHKORN. About $20,000. Noted Aug. 3.

Ohio, East Youngstown—(Official)—City let contract water system to HENDERSON CONSTRUCTION CO., Youngstown. About $153,000.

Ohio, Upper Sandusky—Local Water Co. let contract fire pump to GOULDS MANUFACTURING CO., Seneca Falls, N. Y.

Minn., Clarksfield—City let contract water mains to J. N. SILVER & CO.

Minn., Lake City—City let contract extending water mains to W. D. LOVELL, 1415 Southeast 8th St., Minneapolis, $5,900.

Minn., Westbrook—City let contract extending water mains to REDDING & SMAAGE, Windom.

Kan., Osborne—(Official)—City let contract extending water system to DES MOINES BRIDGE AND IRON CO., Des Moines, Iowa, $9,312. Noted Aug. 3.

Neb., Omaha—Water Bd. let contract pumping station on Walnut Hill to JOHN H. HARTE & SON. About $36,000. A. B. Hunt, Supt.

N. D., Kildeer—City let contract water system to HAGGART CONSTRUCTION CO., Fargo.

Mont., Glasgow—City let contract water and electric-light plant to C. H. KEELY, Kalispell. About $26,630. Noted Aug. 3.

Mont., Hinsdale—City let contract water system electric-light plant to C. H. KELLY, Kalispell. About $26,650. Noted July 6.

Calif., San Francisco—City let contract 5 tunnels on line of Lower Cherry Power Development on Hetch Hetchy project to MacARTHUR BROS. CO. About $53,785.

Ont., Cobourg—Provincial Hydro-Electric Co. let contract 24-in. pipe to J. E. RUSSELL, 307 Logan Ave., Toronto.

Ont., Stratford—City let contract steel water tower to CHICAGO BRIDGE AND IRON CO., 37 Van Buren St., Chicago. About $23,000.

Sask., Saskatoon—(Official)—City let contract water main under river to L. O. BEAN, Saskatoon. About $19,753. Noted June 29.

SEWERS

Proposed Work

N. H., Manchester—See item under "Streets and Roads." Noted Aug. 3.

Mass., Holyoke—City plans sewer in portion South Canal St. T. J. McCarthy, City Engr.

Conn., Bridgeport—Paving and Sewer Com., Room 12, City Hall, receiving bids Sept. 6 for sewers in Railroad and Bostwick Ave. Noted July 6.

N. Y., New York—(Queens)—M. E. Connolly, Borough Pres., receiving bids Aug. 29 for sewers in Hughes St., 2nd ward, Benedict Ave., 4th ward, Queens Ave., 3rd ward, Chichester, Oxford, Portland, Herald, Guion and Atlantic Ave., 4th ward, and Shaler St., 2nd ward.

N. Y., Port Jervis—City plans voting bonds for sewers.

N. J., Hackensack—(Bogata)—(Official)—Borough Council, Bogata, receiving bids Aug. 25 for sewers. C. Potts, 30 Church St., New York, Engr. (See adv. Aug. 17 isue.)

Penn., Muncy—State Industrial Home for Women plans sewer and water systems. Albright & Mebus, Engr.

Penn., New Castle—City soon to receive bids for sanitary sewer in Sampson St. C. H. Milholland, City Engr.

Penn., South Bethlehem—City made plans for sewage plant. H. J. Hirst, Philadelphia, Sanitary Engr.

Md., Sparrows Point—Bethlehem Steel Co. plans sewer system. Norton, Bird & Whitman, Munsey Bldg., Engr.

Tenn., Kingsport—See item under "Water-Works."

Ohio, Cleveland—County Comrs. receiving bids Sept. 16 for sewers in West 25th, West 28th St., Church, Vernon Ave. and across Superior Viaduct to Detroit Ave. E. G. Krause, Clk.

Ohio, Greenville—City sold $20,000 sewer bonds.

Ohio, Lakewood—City plans intercepting sewer in Sloan and Lake Ave. and Clifton Pike, Route D. About $23,000. E. A. Fisher, City Engr.

Ohio, Lebanon—Infirmary Bldg. Com. receiving bids Aug. 28 for infirmary sewer. J. A. Runyam, Pres.

Ohio, Rocky River—City receiving bids about Oct. 1 for sewage treatment plant and sewer system. About $85,000. R. W. Pratt, 708 Hippodrome Bldg., Cleveland, Engr.

Ohio, Wapakoneta—City voted $40,000 sewer bonds.

Ohio, Youngstown—City made plans for sewer in Hulda St. F. N. Lillie, City Engr.

Ind., Alexandria—Common Council receiving bids Sept. 4 for sewers.

Ind., North Vernon—City receiving bids Aug. 26 for sanitary sewer in Madison Ave. E. E. Olcott, City Clk.

Mich., Alma—City plans extending sewers. About $35,000.

Mich., Big Rapirs—Council approved plans for sewers.

Mich., Escanaba—City plans sewer system. W. J. McDonald, City Engr.

Mich., Flint—City making plans for sanitary sewers on Lippincott Blvd., Warner, Dwight and Crocker Ave. E. C. Shoecraft, Engr.

Mich., Pontiac—City made plans for sewers in Judson, Prospect and Cannon St. W. J. Fisher, City Engr.

Mich., Royal Oak—City making plans for storm sewers in Center St. Southern Michigan Engineering Co., Dondero Blk., Royal Oak, Engr.

Ill., Cairo—City plans sewer system. J. H. Connell, City Engr.

Ill., East St. Louis—City making plans for sewer system in Winstonley Ave. About $19,400. J. M. Griffin, City Clk.

Ill., Niles Center—City soon receives bids for storm and sanitary sewers. About $55,000. H. L. Emerson 133 West Washington St., Chicago, Engr. G. Klemm, Mayor.

Ill., Nokomis—City plans sewer system and septic tank. About $25,000. D. M. Maury, 53 West Jackson Blvd., Chicago, Engr. J. Weinstein, Mayor.

Ill., Rockford—City making plans for sewers in Rural and Highland St. About $18,500. W. H. Bennett, Pres. Bd. Local Impvts.

Ill., Springfield—City to make plans for Washington Park sewer. Wade D. Seeley, City Engr.

Ill., Streator—City election soon to vote $19,500 sewer bonds. F. Rentz, City Engr.

Ill., Taylorville—Citizens defeated $30,000 sewer bonds.

Ill., Witt—(Official)—Bd. Local Impvts. receiving bids about Nov. 1 for sanitary sewers. About $10,000. Warren Engineering Co., Powers Bldg., Decatur, Engr. Noted Aug. 10.

Wis., Manitowoc—City receiving bids Aug. 27 for storm sewers in Huron St. J. Kelly, City Clk.

Wis., Neenah—City plans sewers in Main, Lake and Oak St. A. E. McMahon, Engr.

Iowa, Creston—City plans sewers in Sumner Ave., and Southwest Poplar St. F. S. De Lay, City Engr.

Iowa, Oxford—City defeated proposition for sewers.

Minn., Gaylord—(Official)—City retained J. F. Druar, Consult. Engr., St. Paul, to make plans for sewer and water system. About $4,000. A. H. Kuehner, Village Recdr.

Minn., Luverne—Council plans extending sewer system.

Minn., West Minneapolis—(Minneapolis post office)—(Official)—City retained J. F. Druar, Consult. Engr., St. Paul, to make plans for sewer and water extensions. E. A. Close, Recdr.

Wyo., Worland—City voted $15,000 sewer bonds, and $25,000 water bonds. Benham Engineering Co., Oklahoma, Okla., Engr.

Mont., Hardin—City soon to let contract for trunk-line sewer. About $30,000.

Okla., Crodell—City voted $25,000 sewer bonds. Noted Aug. 10.

Ore., Ashland—City soon to let contract for sewers in Laurel and other streets. About $12,000. C. H. Gillette, City Recdr. Noted June 22.

Ore., Portland—City soon to let contract for sewers in East 44th, East 45th, East Davis and East Pine St. and Montgomery Drive. A. L. Barbour, City Audr.

Calif., Folsom City—City voted $20,000 sewer bonds. Noted July 13.

Calif., Fresno—City receiving bids Sept. 5 for intercepting and outfall sanitary sewer. B. E. Cronkite, City Engr. Noted Aug. 10.

Calif., Ione—Town officials plans sewer system.

Calif., Los Angeles—City soon to let contract for sewer in Florence Ave. About $100,000. Homer Hamlin, City Engr.

Calif., Sacramento—Board Health ordered sewer in 24th St. F. C. Miller, City Engr.

Que., Sherbrooke—City making plans for concrete and trunk sewers. Thomas Tremblay, City Engr.

Bids In and Contracts Awarded

Mass., Boston—(Dorchester)—(Official)—City let contract sewerage works to DADDARIO & BOOTH, 49 Edgewater Dr., Mattapan, $12,014.

Conn., Naugatuck—City let contract sewer in Tolland St. to E. P. TRACY, Derby. About $16,000.

N. Y., Batavia—(Official)—City let contract sewage pump station to WARSAW CONSTRUCTION CO. Chester & Fleming, Pittsburgh, Penn., Engr.

N. Y., Buffalo—(Official)—City let contract sewers in Amherst, Berkshire and Stockbridge St. to DARK & CO. Noted Aug. 10.

N. Y., Mt. Kisco—(Official)—Bd. Trustees let contract sewers in Railroad Ave. to F. G. FOWLER CONSTRUCTION CO., Mt. Kisco. About $4,680. Noted Aug. 10.

N. Y., New York—(Queens)—Lowest bids received Aug. 16 for sewers in Lurting St., Alstyne and Junction Ave., 2nd ward, Clancy & Van Alst, $196,963; Woodbine St. and Prospect Ave., Green Contracting Co., $5,135; Collins Ave., Adriatic St. and Fresh Pond Rd., Dicola & Martino, $108,639; Forbes, Dunsing and Clarence St. and Jackson Ave., Kenmore Contracting Co., $32,025. Noted Aug. 10.

N. Y., New York—(Queens)—City let contracts sewers, Fairview, Maure, Guion and Atlantic Ave. and Birch St. to F. L. PAINO; Woodmere Pl. to H. BRITTON; Kossuth Pl. and Forest Ave. to PEACE BROS.; Church St., to E. W. FITZPATRICK; Felix St., to J. C. SCHRADE. Noted Aug. 3.

N. J., Hoboken—(Official)—City let contract sewers in 7th, 11th and 15th St. to HOBOKEN CONSTRUCTION CO., 54 5th St., Hoboken, $970,222. Noted Aug. 10.

N. J., Ridgefield Park—(Official)—Bd. Comrs., Municipal Bldg., 232-34 Old Hackensack Rd., let contract sewers, treatment works to CARRINGTON CONSTRUCTION CO., 7 Priest St., Jersey City, $101,278. Noted July 20.

Penn., Beaver—City rejected bids for sewage system. Noted Apr. 6.

Sewers (Continued)

Penn., Harmony—City let contract sanitary sewers to J. I. DICK.

Miss., Laurel—City let contract sewers in Cotton Mill addition to S. A. CARNES.

Ky., Louisville—Board Pub. Wks. let contract for sewers to HENRY BICKEL. About $8,000. D. R. Lyman, City Engr.

Ohio, East Liverpool—City let contract sanitary sewers to J. B. REED CO., McKeesport, Penn., $7,723 and storm sewers to BURNS BROS., New Castle, Penn., $6,729.

Ohio, Middleton—City let contract storm and sanitary sewer to R. SIMPSON CO. C. E. Morrison, City Engr. Noted July 27.

Ohio, Toledo—(Official)—Bids received Aug. 14 for sanitary sewer No. 28 in Main Sewer Dist. No. 4 from J. N. Bick, Toledo, $152,389, and Dawn Construction Co., Cleveland $146,541. L. A. Bonlay, Toledo, County Sanitary Engr. Noted Aug. 10.

Mich., Larium—City let contract sewer in several streets to J. CHATEL.

Ill., Ashton—City let contract sewer and sewage systems to J. M. EGAN, Jr., Aurora. About $33,331.

Ill., Winnetka—City let contract sanitary sewer in Elm and Berkeley St. to J. BAKER, Oak Park.

Wis., La Crosse—City let contract sewers in Rose, Kane and 11th St. to OLAF SWENNER, 414 North 14th St.

Wis., Wauwatosa—City let contract sewers to M. SYNOVETZ, 944 2nd Ave., Milwaukee.

Iowa, New Hampton—(Official)—City let contract sewage plant to WILLIAM C. FRASEN, St Paul, Minn. About $28,000. Noted Aug. 3.

Minn., Albert Lea—City let contract sewer to ILLSTRUP & OLSON, 303 West 49th St., Minneapolis, $13,161.

Minn., Claremont—(Official)—City to let contract Aug. 30 for sewer and sewage plants. A. C. Hinckley, Village Recdr. Noted June 15.

Minn., Rochester—City let contract sewer in 7th St. to ADOLPH KRUGER.

Kan., Hutchinson—(Official)—City let contract North Main St. district sewer to C. M. GRAY, Monett, Mo., $31,522. Noted Aug. 3.

Kan., Nickerson—City let contract sewers to J. H. SHEARS & SONS, Hutchinson. Noted July 20.

S. D., Bridgewater—(Official)—City let contract storm water sanitary sewers to F. R. LUBKER, Bridgewater.

Tex., Arlington—City let contract sewer system and extending septic tank to W. C. WEEKS, Arlington. About $9,749. Noted July 20.

Tex., Corsicana—City let contract sewage plant to HEALEY CONSTRUCTION CO., $18 439.

Tex., Marlin—City soon lets contract for sewers and sewage system. About $45,000. A. Goodrich, City Engr. Noted Aug. 17.

Calif., Richmond — City Council let contract sewer to F. R. RITCHIE & CO., Chronicle Bldg., San Francisco, $20,000.

Calif., San Jose—City received low bid for sewers from Schuyler & Edwards, Box 847, Stockton. About $6,633.

Calif., Stockton—City Council let contract storm sewer in Edison, Harrison, Lincoln and Jefferson St. to W. S. GAUSE, 15 Park Way, Oakland, $6 477.

GARBAGE

Proposed Work

Penn., Sharpsville—Borough retained Chester & Fleming, Engr , Union Bank Bldg., Pittsburgh, to make plans for garbage incinerator.

Ohio, Columbus—Council passed Ordinance to issue $30,000 bonds for garbage reduction plant.

Mo., Hannibal—City plans garbage incinerator. B. F. Smiley, City Engr.

STREETS AND ROADS

Proposed Work

N. H., Manchester—City sold $200,000 street and sewer bonds.

Mass., Pittsfield—City plans extending Silver Lake Blvd.

Conn., Bristol—City plans concrete curb on Hull St.

N. Y., Buffalo—City Council plans paving portion Broadway Market. About $8,000.

N. Y., New York—(Richmond)—C. D. Van Name, Borough Pres., receiving bids Aug. 29 for paving portion Amboy Rd.

N. Y., Union—City plans paving North St. George Hills, Village Clk.

N. J., Bound Brook—Bd. Freeholders plans improving Bound Brook-Washington Valley Rd. About $50,000.

N. J., Hackensack—Joint Rd. Com. of Bergen and Hudson Counties, Hackensack, receiving bids Sept 5 for improving Belleville Turnpike. T. J. Wasser, County Engr.

N. J., Hammonton—(Official)—City soon to receive bids for road work. About $30,000. Remington & Vosbury, 6th and Market St., Camden, Engr. Noted Aug. 3.

N. J., Irvington—City passed ordinance for improving Laurel Ave.

N. J., Plainfield—(Official)—City receiving bids Sept. 5 for improving Ravine Rd., Leland, Stella and Kensington Ave. and Lake St., macadam. A. J. Gavett, City Engr. Noted Aug. 3.

N. J., Tenafly—Bd. Freeholders plans improving portion Clinton Ave.

N. J., Trenton—City to sell $66,000 paving bonds. R. J. Fell, Jr., City Engr.

N. J., Vincentown—Tabernacle Township plans gravel road. About $25,000. James Logan, Mt. Holly, Engr.

Penn., Ardmore—Board Comrs. voted $30,000 for road improvements.

Penn., Ferndale—Borough Council passed ordinance to improve Henry St. and Glenwood Ave. Address Clk.

Penn., Hughesville—Borough receiving bids Sept. 4 for 5,000 sq.yd. paving. W. C. Fulmer, Secy.

Penn., Philadelphia—Bd. Pub. Wks. soon lets contract for repaving Richmond and Venango St. and Point Breeze Ave. C. Albright, City Engr.

Penn., Williamsport—City receiving bids Sept. 1 for resurfacing central section of city. About $55,000. George K. Harris, Supt. City Highway Dept.

Md., Monkton—County Comrs. plan improving road between Monkton and Manot. Address County Clk., Baltimore.

Va., Norfolk—City plans improving streets. About $300,000. Walter H. Taylor, Jr., City Engr.

W. Va., Clarksburg—Council appropriated $8,000 for paving West Pike St.

W. Va., Fairmont—City plans paving Morgantown Ave. About $13,000.

W. Va., West Union—County voted $175,000 bonds for improving roads. Hiram Houston, West Union, County Clk.

N. C., Fayetteville—Cumberland County sold $25,000 road bonds. Address County Clk., Fayetteville. Noted Aug. 17.

N. C., Lenoir—County voted $50,000 road bonds. Address County Clk., Lenoir. Noted Jan. 20.

N. C., Wilkesboro—Wilkes County plans to vote on $250,000 road bonds. Address County Clk., Wilkesboro.

Fla., Lakeland—City plans 7 mi. brick and asphalt streets.

Fla., Lakeland—Polk County sold $1,500,000 road bonds. J. A. Johnson, Bartow, County Clk. Noted July 27.

Fla., Miami—Dade County, Dist. No. 1, issued $92,000 road and street bonds.

Fla., Palatka—Putnam County Road and Bridge Dist. No. 3 sold $80,350 bonds for road from Rodman to Orange Springs, about 21 mi. Address County Clk., Palatka. Noted Apr. 13.

Ala., Piedmont—City voted $5,000 bonds for highway on Ladiga St. J. C. Lay, Jr., Clk.

Miss., Friars Point—Bd. Comrs. Coahoma County receiving bids Sept. 4 for about 80 mi. gravel roads. T. S. Adderholt, Friars Point, Pres. L. W. Washburn, Clarksdale, Engr.

Miss., Holly Springs—Comrs. Holly Springs and Mt. Pleasant Counties receiving bids Sept. 5 for 2 mi. concrete roads, 34 mi. gravel roads, 35 mi. sand clay roads, 2,670 cu.yd. bridge concrete, 900 lin.ft. creosoted pine bridges and 8.500 lin.ft. pipe culverts. Appropriation of $262 000 made. W. G. Kirkpatrick, 704 Farley Bldg., Birmingham, Ala., Engr.

Miss., Holly Springs—Marianna Rd. Dist. Comn. to let contract in October for about 15 mi. road in Marshall County. W. G. Kirkpatrick, 704 Farley Bldg., Birmingham, Ala., Engr.

Miss., Jackson—County Suprvs. plan to issue $70,000 highway bonds.

Miss., Raymond—Hinds County authorized $70,000 road-bond issue. Address County Clk., Raymond.

La., Alexandria—City sold $110,000 road bonds.

La., Baton Rouge—Election Sept. 26 in Third Ward to vote on $130,000 road bonds. Address Police Jury, Baton Rouge.

La., Lake Charles—City to vote Sept. 12 on $900,000 road bonds.

La., Melville—City voted $40,000 bonds for road between Melville and Ravenswood.

La., Monroe—Quachita Parish sold $500,000 road bonds. W. A. Kelley, Monroe, Clk. Police Jury. J. W. Billingsley, Interstate Bank Bldg., New Orleans, Consult. Engr. Noted Aug. 3.

La., Opelousas—St. Landry County, First Rd. Dist., to sell $18,500 road bonds Sept. 4. J. J. Healey, Opelousas, Clk. Police Jury.

La., Pleasant Hill—City voted $30,000 bonds for road between DeSota Parish line and Natchitoches Parish line.

Tenn., Paris—County defeated $250,000 road bonds. Address County Clk., Paris. Noted July 20.

Ky., Benton—Marshall County to vote on $100,000 road bonds.

Ky., Jenkins—(Official)—Consolidated Coal Co. plans 4,420 sq.yd. concrete paving, 3,900 lin.ft. curb and gutters and 9,500 sq.ft. cement walks.

Ky., Warsaw—County voted $50,000 road bonds. Address County Clk., Warsaw.

Ohio, Akron—Summit County to sell $20,529 road bonds Sept. 5. H. G. High, Akron, County Clk.

Ohio, Akron—City Council passed ordinance to improve portion Brook St. J. A. Gehres, City Engr.

Ohio, Bellefontaine—Citizens voted $20,000 street-improvement bonds. C. A. Inkeep, Dir. Pub Ser.

Ohio, Brooklyn Heights—(Cleveland post office) —City plans grading and sidewalks. About $17,155. F. Lander, 306 American Trust Bldg., Cleveland, Engr.

Ohio, Brookside—(Bridgeport post office)—Village receiving bids Sept. 2 for paving Brookside Ave. W. C. Fawcett, Martins Ferry, Engr.

Ohio, Bryan—Council sold $14,000 street-improvement bonds.

Ohio, Cincinnati—Council passed ordinance to pave portion Jones St., asphalt or bitulithic. F Krug, City Engr.

Ohio, Cincinnati—Council will authorize Park Dept. to spend about $75,000 on roads and improvements. F. Krug, City Engr.

Ohio, Cincinnati—Council passed ordinance to issue $57,700 bonds for improving Eureka Terrace, Warsaw and Elland Ave. and other streets. F Krug, City Engr.

Ohio, Cincinnati—City plans sidewalks on Plain, 4th and 5th St. and Opera Pl. F. C. Krug, City Engr.

Ohio, Cincinnati—(Official)—City lets contract improving May St. some time next year. F. Krug, City Engr. Noted July 6.

Ohio, Cincinnati—(Official)—City soon receives bids for improving Eastern Ave. About $500,000. F. Krug, City Engr. Noted July 6.

Ohio, Cleveland Heights—(Warrensville post office)—City receiving bids Sept. 18 for sale of $101,220 street-improvement bonds. H. H. Canfield, Clk.

Ohio, Defiance—Defiance County to sell $19,500 road bonds Aug. 28. R. Daoust, Defiance, Audr.

Ohio, Kenton—County Comrs. receiving bids Aug. 30 for road improvements. U. J. Pfeiffer, Kenton, Comr. Noted Apr. 6.

Ohio, McComb—City receiving bids about Sept. 1 for paving and curbing Perrin St. F. L. Stroke, Clk.

Ohio, Marion—City receives bids in fall for improving portion Chase St. E. S. Oult, City Engr. Noted July 20.

Ohio, Marietta—City Council passed resolution to pave portion Mulberry and Montgomery St.

Ohio, Marysville—Village to sell $14,000 highway bonds Sept. 4. I. T. Southard, Clk.

Ohio, Matamoras—(New Matamoras post office) —(Official)—Village receiving bids Sept. 6 for paving several streets, brick or concrete. W. P. Mason, 406 German Bank Bldg., Marietta, Engr.

Ohio, Port Clinton—City sold $11,000 street-improvement bonds.

Ohio, St. Bernard—(Cincinnati post office)—City receiving bids Aug. 26 for $50,000 street-improvement bonds. William Taylor, City Audr.

Ohio, Tiffin—City soon to receive new bids for repaving North Washington St. Noted Aug. 17.

Ohio, Uhrichsville—City made plans for paving Deersville Ave. About $16,000. George Arnold, 115 Broadway, New York, Engr.

Ohio, Washington—Court House—Dir. Pub. Ser. receiving bids Sept. 1 for paving portion of Lewis St. James Hillery, Dir. Noted June 15.

Ohio, West Unity—City sold $14,000 street-improvement bonds.

Ohio, Worthington—Town receiving bids Sept. 11 for sale of $9,500 street-improvement bonds. W. P. Vest, Clk.

Ohio, Xenia—(Official)—City receiving bids Sept. 12 for $5,000 bonds for paving Rogers St., $10,000 for East Main St., $40,000 for West St. C. F. Logan, City Audr. J. P. Shumaker, City Engr.

Ohio, Xenia—(Official)—Dir. Pub. Ser. receiving bids Aug. 29 to curb and pave East Main, Monroe and Collier St. with brick or asphalt. About $80,000. J. P. Shumaker, City Engr. C. W. Whitmer, Dir. Noted July 6.

Ohio, Youngstown—City plans paving portion Alice St. F. M. Lillie, City Engr.

Ind., Albion—County Comrs. receiving bids Sept. 5 for gravel road in Green Township. George A. Young, Albion, County Audr.

Ind., Auburn—County Comrs. receiving bids Sept. 6 for gravel road in Franklin Township. S. P. Nelson, Auburn, County Audr.

Ind., Bedford—County Comrs. receiving bids Sept. 5 for gravel or macadamized road in Shawwick Township. Ezra W. Edwards, Bedford, County Audr.

Ind., Columbia City—Co[illegible]s. receiving bids Sept. 6 for roads [illegible] townships. Thomas A. McLaughlin, [illegible]nty Audr.

Ind., Corydon—Harriso[illegible]ving bids Sept. 7 for gravel or maca[illegible] road on Washington-Heth Township line. [illegible] L. O'Bannon, Audr.

Ind., English—County Comrs. receiving bids Sept. 5 for rock road in Monroe Township. Joseph B. Enlow, English, County Audr.

Ind., Fowler—County Comrs. receiving bids Sept. 4 for road in Hickory Rd. Township Warren Mankey, Fowler, County Audr.

Streets and Roads (Continued)

Ind., Frankfort—(Official)—County sold $15,720 road bonds. Address County Clk., Frankfort. Noted Aug. 10.

Ind., Frankfort—Clinton County receiving bids Sept. 7 for 4 gravel roads in Center and Madison Townships.

Ind., Indianapolis—City sold $40,000 highway bonds.

Ind., Jeffersonville—County Comrs. receiving bids Sept. 4 for crushed limestone and screenings road in Charleston Township. George W. Stoner, Jeffersonville, County Audr.

Ind., Paoli—County Comrs. receiving bids Sept. 4 for 2 roads in Jackson Township. E. A. Palmer, Paoli, County Audr.

Ind., Petersburg—County Comrs. receiving bids Sept. 5 for rock road in Monroe Township. John D. Grey, Petersburg, County Audr.

Ind., Rensselaer — County Comrs. receiving bids Sept. 5 for stone road in Marion and Kankakee Township. J. P. Hammond, Rensselaer, County Audr.

Ind., Scottsburg—County sold $18,200 road bonds.

Ind., Shelbyville—Shelby County receiving bids Sept. 6 for gravel and concrete road in Hanover Township. F. W. Fagel. Shelbyville, Audr.

Ind., Shoals—County Comrs. receiving bids Sept. 4 for 2 roads in Halbert Township. L. D. Haga, Shoals, County Audr.

Ind., Valparaiso—County Comrs. receiving bids Sept. 4 for gravel road in Center Township. C. A. Bachly, Valparaiso, County Audr.

Ind., Vernon—County Comrs. receiving bids Sept. 4 for crushed-stone road in Vernon Township. J. G. Bernhart, Vernon, County Audr.

Ind., Warsaw—County Comrs. receiving bids Sept. 7 for roads in Jefferson, Van Buren and Scott Townships. Ernest A. Smith, Warsaw, County Audr.

Ind., Washington—County Comrs. receiving bids Sept. 5 for gravel road in Elmore Township. Jacob G. Clark, Washington, County Audr.

Ind., Winchester—County Comrs. receiving bids Sept. 4 for 2 stone roads in White River Township. Address County Clk., Winchester. Noted June 22.

Mich., Menominee—City soon receives bids for rein.-con. paving on Stephenson Ave., curb and gutter on State St., sidewalks on various streets. F. S. Norcross, City Clk.

Ill., East St. Louis—City making plans for paving Frendly and 8th St. About $32,420 and $10,000. Charles Gardner, Pres. Bd. Local Impvts.

Ill., East St. Louis—Council passed ordinance for paving Missouri Ave. with brick.

Ill., Jordan—(Official)—Comr. Highways, Sterling, rejected bids for gravel roads and culverts in Whiteside County. V. N. Taggett, Morrison, County Supt. Highways. Noted Aug. 10.

Ill., Rockford—City making plans for paving North Main St. W. H. Bennett, Pres. Bd. Local Impvts.

Ill., Rock Island—City making plans for paving portion of 27th St. William McConochie, Chn. Bd. Local Impvts.

Ill., Wheaton—Board Local Improvements receiving bids Sept. 1 for about 13,000 sq.yd. bituminous bound macadam pavement and 12,000 lin.ft. concrete curb and gutter. L. J. Ruddock, City Engr. Noted Aug. 3.

Ill., Witt—(Official)—City to receive bids about Nov. 1 for 8,000 sq.yd. concrete paving and curbing. Warren Engineering Co., Powers Bldg., Decatur, Engr. Noted Aug. 10.

Minn., St. Paul—Council authorized paving portion of Grand Ave. About $124,849. Oscar Clausen, City Engr.

Kan., Augusta—Council passed resolution for paving with brick 11 blocks on State, 3rd and High St.

Kan., Emporia—City passed ordinance for paving several streets. Fred H. Smith, City Clk.

Kan., Neodesha—City passed resolutions for paving streets. J. J. Carroll, Clk.

Kan., Sterling—City passed resolution to improve several streets.

Neb., Nebraska City—(Official)—City to receive bids some time next year for 3-mi. paving. C. A. Shannon, City Engr. Noted Aug. 10.

Mo., Adrian—East Boone Township voted $6,000 road bonds. Frank Holland, Butler, County Clk.

Mo., Carterville—City plans to pave portion Main St., concrete. A. M. Baird, City Clk.

Mo., Joplin—City plans paving portion Joplin St. and Highland Ave. J. D. Hodgdon, Comn. Streets.

Ark., Black Rock—Lawrence County made plans for macadam road, Dist. No. 2. About $14,000. Address County Clk., Powhatan.

Ark., Forest City—State Highway Comrs. plan gravel road. About $250,000.

Ark., Lonoke—County Comrs. plans 3½ mi. macadam and 5 mi. bituminous macadam. About $25,000. Hugh R. Carter, Little Rock, State Highway Comr.

Ark., Pine Bluff—Rd. Comrs. plan improving Road in Dist. No. 16. About $6,500.

Ark., Wynne—State Highway Dept. received plans for gravel roads. About $85,000.

Tex., Bonham—Fannin County voted $135,000 road bonds Address County Clk., Bonham. Noted July 20.

Tex., Dalas—City Comn. appropriated $6,000 to widen portion Young St. About $13,395.

Tex., Dallas—Council authorized paving Ash Lane and Gould St., vibrolithic. H. Moseley, City Engr.

Tex., Ector—City voted $35,000 road bonds.

Tex., Ft. Worth—See item under "Sewers."

Tex., Kaufman—Kaufman County to vote on $45,000 road bonds.

Tex., Lanier—City voted $12,000 road bonds.

Tex., Terrell—City plans to improve West Moore Ave. H. Brewster, City Engr.

Okla., El Reno—Canadian County to let contract for road grading about Sept. 15, about $10,000.

Idaho, Boise City—City receiving bids Aug. 29 for sale of $29,285 road bonds.

Utah, Salt Lake City—(Official)—City receiving bids Aug. 31 for grade, curb and gutter portion of A St. About $4,946. S. Q. Cannon, City Engr. Noted June 8.

Wash., Sumner—City soon to let contract for paving. About $26,015. W. P. Wood, City Engr. Noted July 27.

Ore., Astoria—City plans to hard-surface Klatskanie Ave. J. T. McCrean, City Engr.

Ore., Eugene—County soon to receive bids for 8,895-ft. macadam road to Mohawk Valley, 5,830-ft. macadam on Eugene-Elmira Rd., also 5,200-ft. dirt road. Address County Clk., Eugene.

Calif., Chino—City retained P. C. Kressly, Inglewood, to make plans for street and road construction; bonds for $75,000 voted for same. Noted Apr. 6.

Calif., Fowler—City soon lets contract for paving 8th St., concrete. C. P. Jansen, Fresno, Engr. Noted June 29.

Calif., Los Angeles—(Official)—City soon to receive bids for paving portion West 1st St. H. Hamlin, City Engr. Noted July 27.

Calif., Los Angeles—City receiving bids Sept. 15 for asphalt pavement on Boyle Ave. H. Hamlin, City Engr. Noted June 22.

Calif., Santa Barbara—(Official)—City receiving bids Sept. 7 for paving portion Anacapa and Valerio St., asphalt. A. B. Cook, City Engr.

Calif., Santa Barbara—(Official)—City receiving bids Sept. 21 for paving portion Mission Ridge Rd., about 2 mi., oil and screenings wearing surface, together with ¾-mi. 6-in. pipe sanitary sewer, catch basins, retaining walls, etc. A. B. Cook, City Engr.

Calif., Santa Paula—City made plans for paving various streets. About $1,000 000. E. M. Lynch, Glendale, City Engr. Noted June 22.

Bids In and Contracts Awarded

Maine, Bath—City let contract granolithic sidewalks to JOHN GRADY & SON, 26 Central St., Bangor. About $20,000.

Mass., Boston—(Official)—City let contract paving Harrison Ave. to WILLIAM BARRETT & CO., 27 Hunneman St., Roxbury. About $15,483.

Mass., Brookline—Selectmen rejected bids for paving Pearl St. E. A. McEttrick, Secy. Noted July 27.

Mass., Salem—(Official)—City let contract artificial stone sidewalks to HOLLAND CONSTRUCTION CO., Lawrence, about $1.39 sq.yd.

Conn., New Haven—City let contract paving between New Haven and Derby to DALEY CONSTRUCTION CO. About $35,000.

Conn., Windsor Locks—City let contract road to L. SUZIO CONSTRUCTION CO., Meridan.

N. Y., Albany—(Official)—State Highway Comn. 55 Lancaster St. let contracts constructing and repairing highways in various counties as follows: Road No. 5,155, Albany, Guilderland, Albany County, 5.37 mi. F. B. VAN WAGENEN, Rondout, $11,935. Road No. 1,054, Alden, Darien Center, Genesee County, 3.88 mi. FRANK D. VAN HORN, New York, $20,274. Road No. 5,582, Leroy, Pavilion, Part 2, Genesee County, 4.53 mi. WILLIAM J. KIDD, New York, $44,893. Road No. 1,098, Eagle Bay, Sixth Lake, Hamilton County, 4.22 mi. R. A. KELTON, Albany, $35,020. Road No. 5,563, Lockport, McNalls, Niagara County, 5.07 mi. FRANK D. VAN HORN, New York, $62,709. Road No. 986, Fosterdale, Mongaup Valley, Sullivan County, 10.97 mi. FRANK D. VAN HORN, New York, $34 102. Road No. 1.109, Cambridge, Ash Grove, Washington County, 2.09 mi. LYDEN CONSTRUCTION CORPORATION CO. Albany, $18,981. Repair Contract No. 995, Cayuga County, 2.76 mi. McGREEVEY, McGUIGAN & BAUM, Elmira, $24,013. Repair Contract No. 797, Clinton County, 7.34 mi. R. A. KELTON, Albany, $17,214. Repair Contract No. 998, Clinton County, 12.83 mi. DEFIANCE CORPORATION, Ticonderoga, $4,664. Repair Contract No. 1.003, Cortland County, 0.42 mi. NASH & GRIFFIN, Norwich, $4,942. Repair Contract No. 959, Delaware County, 1.57 mi. FEDERAL PAVEMENT CORPORATION, New York, $35,621. Repair Contract No. 941, Delaware County, 5.77 mi. RICHARD HOPKINS, Troy, $21,070. Repair Contract No. 986, Duchess County, 1.19 mi. THOMAS J. MARTIN Beacon, $6,747. Repair Contract No. 992, Erie County, 9.40 mi. RICHARD HOPKINS, Troy, $58 465. Repair Contract No. 997, Essex County, 23 68 mi. DEFIANCE CORPORATION, Ticonderoga, $8,780. Repair Contract No. 993, Monroe County, 1.50 mi. HARRY W. ROBERTS & CO., Utica, N. Y., $14,327. Repair Contract No. 845, Nassau County, 2.50 mi. WILLIAM J. KIDD, New York, $2,950. Repair Contract No. 990, Niagara County, 2.20 mi. CHARLES E. HANEY, Camillus, $12,993. Repair Contract No. 983, Onondaga County, 2.29 mi. HARRY W. ROBERTS & CO., Utica, $21.527. Repair Contract No. 1,003, Onondaga County, 1.31 mi. McGREEVEY, McGUIGAN & BAUM, Elmira, $9,938. Repair Contract, No. 1,004, Ontario County, 1 mi. McGREEVEY, McGUIGAN & BAUM, Elmira, $7,039. Repair Contract No. 994, Ontario County, 1.95 mi. CONNORS & GALLAVAN, Elmira, $11,163. Repair Contract No. 996, Orange County, 1.84 mi. JACOB STERN, Stroudsburg, Penn., $23,506. Repair Contract No. 818, St. Lawrence County, 5.50 mi. LYNDEN CONSTRUCTION CO., Albany, $9,084. Repair Contract No. 1,000, Saratoga County 20.88 mi. PAUL SCHULTZ, Albany, $6,137. Noted Aug. 10.

N. Y., Albany—(Official)—State Highway Comn., 55 Lancaster St., let contracts for highways in various counties as follows: Road No. 5,614, Loudon-Crescent, Pt. 2, Albany County, 0.10 mi. BROWN & LOWE CO., Schenectady, $1,544. Road No. 1,451, Stella-New Irelans, Broome County, 4.70 mi. T. H. GILL CO., Binghamton, $52,486. Road No. 1,414, Venice Center-Genoa Cayuga County, 5.45 mi. FRANK MALONE, Syracuse, $72,209. Road No. 1,435, Solon-Gee Brook, Part 1, Cortland County 6.07 mi. MICHAEL O'BRIEN, Cortland, $73,747. Road No. 1,439, Sidney-Masonville, Delaware County, 6.51 mi. ALBANY CONSTRUCTION CO., Albany, $92,554. Road No. 1,445 East Aurora-Lancaster, Part 2, Erie County, 3.54 mi. WILLIAM F. FELTON, Buffalo, $51,981. Road No. 924, Wales Center-Wales, Erie County, 6.03 mi. WILLIAM F. FELTON, Buffalo, $62,120. Road No. 5,617 Watertown-Philadelphia, Part 2, Jefferson County, 5.03 mi. PATHFINDER CONSTRUCTION CO., Fulton, 61,464. Road No. 773, Wendellville-Lockport, Part 2, Niagara County, 2.38 mi. COLD SPRING CONSTRUCTION CO., Buffalo, $25,442. Road No. 1,355, North Western-Boonville, Pt. 1, Oneida County, 6.15 mi. ALBANY CONSTRUCTION CO., Albany, $75,608. Road No. 1,415, Chapin-Palmyra, Part 1, Ontario County, 3.95 mi. CHAMBERS & BARNES, Rochester, $40,219. Road No. 1,427, Fulton-Volney, Part 1, Oswego County, 0.57 mi. SAMUEL BONN, Syracuse, $8,731. Road No. 1,421, Center Berlin-Petersburg, Rensselaer County, 7.20 mi. MARTIN MURRAY & CO., INC., Troy, $90,664. Road No. 1,148, Suffern-Mt. Ivy, Rockland County, 8.62 mi. SAMUEL BESKIN, Beacon, $71,930. Road No. 325, Center Road-Fayette, Part 2, Seneca County, 2.75 mi. THOMAS F. MURRAY, LeRoy, $37,709. Road No. 1,453, Vischers Ferry-Niskayuna, Schenectady County, 1.95 mi. J. J. MALLOY, Schenectady, $19,330. Road No. 1,399, Waterloo Village, Fayette St., Seneca County, 0.24 mi. McMAHON & FARRINGTON, Waterloo, $3,162. Road No. 1,078, Waverly-Lockwood, Tioga County, 6 mi. LANE CONSTRUCTION CORPORATION, Meriden, Conn., $68,043. Road No. 1,417, Wallkill-Newburg, Part 1, Ulster County, 3.12 mi. JOHN A. JOVA, INC. Newburgh, Part 1, Ulster County, 3.12 mi. JOHN A. JOVA, INC., Newburgh, $35,867. Road No. 1,436, Greenwich Village, Elm Ave., Main, Bridge and Eddy St., Washington County, 1.43 mi. KEESVILLE ROAD CO., INC., Keesville, $62,961. Noted Aug. 17.

N. Y., Albany—(Official)—State Highway Commission received low bids for constructing and repairing highways in various counties as follows: Road No. 5615, Belfast-Caneadea, Allegheny County, 9.07 mi.: Frank J. Foote, Nunda, $111,063; W. J. Fox, Oramel, $120,334; J. A. Hughes, Jamestown, $112,200. Road No. 1450, Castle Creek-Whitney Point, Broome County, 6 93 mi: T. H. Gill Co., Binghamton, $103,690. Road No. 5607, Franklinville-Machias, Cattaraugus County, 4 73 mi.: William F. Felton, Buffalo, $75,952 Road No. 1440, Franklin-Unadilla, Part 1, Delaware County, 3 39 mi.: Woodruff Edgecomb Co, East Branch, $46,604; Brady-Oltarsh Co., Inc, Johnstown, $46,330; Fulton Engineering Co., Inc., Albany, $46,628. Road No. 1334-A, Transit, Part 4, Erie County, 3 18 mi.: Carlisle A. Landel, Tonowanda, $43,807; Louis H Gipp, Buffalo, $46,900. Road No. 1354-B, Transit, Part 4, Erie County, 1.12 mi.; Arthur J. Shaw, Jr, & George Perrin, Batavia, $38,619; Louis H. Gipp, Buffalo, $41,935; Bison City Engineering and Contracting Co., Inc., Buffalo, $43,807. Road No. 1443, North Collins-Langford, Erie County., 5.09 mi.: Frank J. Foote, Nunda, $60,117; John Johnson Construction Co., Buffalo, $60,816. Road No. 5602, Malone Village, Main and Elm St., Franklin County, 1 99 mi.: Arthur F. McConville, Ogdensburg, $67,100; John B. Dewer, Ballston Spa, $67,174; P. J. Kennedy, Utica, $68,879. Road No. 621, St. Johnsville-Oppenheim, Part 2, Fulton County, 2.90 mi.: No bids. Road No. 1363, Paines Hollow-Stone House, Herkimer County, 5.67 mi.: No bids. Road No 5618, Carthage-Antwerp, Part 4, Jefferson County, 4 05 mi.: P. J. Kennedy, Utica, $59,819; Roeh & Griffin Co., Watertown, $61,195; Pathfinder Construction Co., Inc., Fulton, $61,290. Road No. 1392, Rush-Menden, Part 1, Monroe County, 3 69 mi.: Michael Murphy, Rochester, $38,994. Road No. 5590, Lewiston Heights-Lewiston, Niagara County, 0.061 mi.: John Johnson Construction Co, Buffalo, $22,546. Road No. 1356, North Western-Boonville, Part 2, Oneida County, 5 74 mi.: Albany Construction Co, Al-

Streets and Roads (Continued)

bany, $70,022. Road No. 5616, Coshocton-Naples, Part 2, Ontario County, 2.26 mi.: Atlanta Construction Co., Atlanta, $26,961; Steuben Construction Co., Hornell, $27,017; W. J. Semper, Watertown, $30,464. Road No. 1430, Albion Village, Main Street, Orleans County, 1.32 mi.: F. H. Rhodey, Albion, $89,975; Lewis H. Brotsch, Buffalo, $91,000; Thos. Fitzgerald Co., Fredonia, $92,573. Road No. 1428, Sandy Creek-Smartville, Oswego County, 6.36 mi.: Samuel Bonn, Syracuse, $74,840; Bison City Engineering and Contracting Co., Inc., Buffalo, $76,511; Dale Engineering Co., Utica, $77,428. Road No. 1422, Castleton-East Schodack, Part 1, Rensselaer County, 4.87 mi.: Fred Ellis, Melrose, Mass., $57,590. Road No. 1389, Gouverneur-Edwards, Part 2, St. Lawrence County, 4.60 mi.: No bids. Road No. 1454, Duanesburg-Esperance, Schenectady County, 6.33 mi.: Albany Construction Co., Albany, $74,500; Lane Construction Corporation, Meriden, Conn., $75,480; J. J. Malloy, Schenectady, $75,805. Road No. 1420, Bradford-Tyrone, Schuyler County, 3.01 mi.: Willis L. Frost, Watkins, $29,888; John W. Gurnett, Watkins, $30,918; Atlanta Construction Co., Atlanta, $32,733. Road No. 1400, Waterloo-Burns Corner, Seneca County, 4.89 mi.: J. W. Brennan Construction Co., Inc., Geneva, $59,908. Road No. 1452, Richford-Harford Mills, Tioga County, 5.50 mi.: Dana W. Robbins, Inc., New York, $72,025. Road No. 1431, Brockton-Speedsville, Part 1, and Slaterville Springs, Caroline, Part 2: Ft. Schuyler Construction Co., Inc., Utica, $42,748; Patrick B. Conley, Ithaca, $43,354. Road No. 1418, Milton Landing-Milton, Ulster County, 0.55 mi.: Fallkill Construction Co., Inc., Poughkeepsie, $13,894; Harper & Higginson, Inc., Newburgh, $15,272. Road No. 1437, Schuylerville-Greenwich, Washington County, 4.58 mi.: Keeseville Road Co., Inc., Keeseville, $47,732. Road No. 5606, Tuckahoe-White Plains, Part 2, Westchester County, 2.74 mi.: James V. Troin, Mt. Vernon, $46,213.

N. Y., Albany—(Official)—State Highway Comn., 55 Lancaster St., received low bids Aug. 18 for constructing highways in various counties as follows: Road No. 1449, Maine-Glen Aubrey, Broome County, 5.35 mi.: No bids. Road No. 5608, Machias-Delevan, Part 1, Cattaraugus County, 2.17 mi.: William F. Felton, Buffalo, $34,159. Road No. 1379, Jamestown City, Foote Ave., Chautauqua County, 0.74 mi.: John Johnson Construction Co., Buffalo, $36,320; Clyde G. Jones & H. A. Hotchkins, Jamestown, $40,809; Elmer M. Love & Son, Corry, Penn., $41,628. Road No. 1381, Fredonia-South Dayton, Part 3, Chautauqua County, 3.70 mi.: No bids. Road No. 1441, Delancey-Delhi, Delaware County, 4.31 mi.: Brady Oltarsh Construction Co., Johnstown, $70,380; Fulton Engineering Co., Inc., Albany, $70,811; John A. Jova, Inc., Newburgh, $74,680. Road No. 1444, Hunts Corners-Akron, Erie County, 3.75 mi.; Cold Spring Construction Co., Buffalo, $32,752; Michael H. Ripton, Rochester, $33,388; Lewis H. Gipp, Buffalo, $33,688. Road No. 1447, Brant-North Collins, Erie County, 4.50 mi.: No bids. Road No. 5622, Holland-Yorkshire, Part 1, Erie County, 5.19 mi.: Frank L. Cohen, Buffalo, $106,927. Road No. 5613, Malone-Chateaugay, Franklin County, 10.36 mi.: W. T. Thayer & Co., Chateaugay, $124,417; DeGraff & Hogeboom, Inc., Kingston, $125,514. Road No. 1377, Gloversville-West Perth, Fulton County, 3.74 mi.: No bids. Road No. 514, Snooks Corners-Amsterdam, Montgomery County, 2.70 mi.: No bids. Road No. 1344, Green Corner-Francis Pond, Nassau County, 3.38 mi.: Joseph Capek, Inc., Astoria, $44,007; E. T. Eggleston, Yonkers, $45,115; H. J. Mullen Construction Co., Inc., Jamaica, $49,784. Road No. 5620, Geneva City-Lake Street, Ontario County, 0.82 mi.: F. A. Bushley, Norwich, $11,972; Sweeney & Boland, Rochester, $12,165; J. W. Brennan Construction Co., Inc., Geneva, $12,347. Road No. 1423, Speigletown-Tomhannock Reservoir, Rensselaer County, 6.34 mi.: No bids. Road No. 5612, Waddington-Massena, Part 1, St. Lawrence County, 9.12 mi.: Mecca Construction Co., Morristown, $144,830. Road No. 5598, South Glens Falls Village, Saratoga Ave. and Main St., 1.10 mi.: John B. Dower, Ballaston Spa., $70,480; Joseph Fredella, Glens Falls, $74,972. Road No. 5619, Central Bridge, Quaker St., Part 1, Schoharie County, 2.73 mi.: Lane Construction Corporation, Meriden Conn., $33,838; Green & Miller, Schenectady, $35,161; D. J. Snell & Co., Canajoharie, $37,063. Road No. 1401, Willard-Ovid Seneca County, 2.13 mi.: H. A. Schaupp, Guilderland, $25,172. Road No. 1416, Seneca Falls, Clyde, Part 1, Seneca County, 2.63 mi.: Dale Engineering Co., Utica, $27,394; Bradley & McGreevey, Elmira, $27,786; H. A. Shaw, Guilderland, $28,769. Road No. 1432, West Danby-West Danby Station, Tompkins County, 0.43 mi.: Patrick D. Conley, Ithaca, $5,615. Road No. 1434, Ithaca City, Mitchell St., Tompkins County, 0.61 mi.: Patrick D. Conley, Ithaca, $16,777. Road No. 1419, Rosendale Village, Ulster County, 3.17 mi.: George H. McEvoy, Creek Locks, $41,271; Harper & Higginson, Inc., Newburg, $43,459. Road No. 1438, Greenwich-Cambridge, Washington County, 6.98 mi.: Clifford Construction Co., Jamaica, $98,217; Lane Construction Corp., Meriden, Conn., $99,739; St. Lawrence Construction Co., Inc., Albany, $103,106. Road No. 1059, Clyde-Resort, Part 3, Wayne County, 1.88 mi.: No bids. Road No. 1370, Harts Corner-White Plains, Westchester County, 1.74 mi.: Summit Engineering and Construction Co., New York, $50,555.

N. Y., New York—(Borough of Manhattan)—City rejected bids for paving 28th St.

N. Y., New York—(Manhattan)—(Official)—Warner-Quinlan Asphalt Co., at $11,064, low bidder for 600 tons refined asphalt. Noted Aug. 10.

N. Y., New York—(Queens)—(Official)—Contract paving portion Meadow St. let to ASTORIA CONTRACTING CO., $8,834; 88th St., H. J. MULLEN, $8,257. Noted July 27.

N. Y., New York—(Richmond)—(Official)—C. Vanderbilt, 24 Elizabeth St., West New Brighton, low bidder paving portion 3rd St., granite blocks. Noted Aug. 3.

N. Y., New York—(Richmond)—(Official)—J. E. Donovan, 2205 Richmond Terrace, Port Richmond, at $43,689, low bidder for improving portions various streets. Noted Aug. 10.

N. Y., Seneca Falls—(Official)—Village let contract paving portion Fall St. to S. SOPER & SON, Seneca Falls, about $5,000. Noted Aug. 10.

N. Y., Webster—City received low bid for repairing 1.50 mi. highway from Henry W. Roberts, Utica. About $14,327.

N. J., Belvidere—Warren County received low bid Harmony-Martins Creek Rd. from Miles-Tigh & Co., Phillipsburg, at $14,609.

N. J., Bloomfield—Board Freeholders Essex County, Newark let contract improving Broad St. to STANDARD BITULITHIC CO. Noted Aug. 3.

N. J., Mt. Holly—Bd. Chosen Freeholders let contract Mt. Holly-Lumberton Rd. to J. F. SHANLEY CO., 26 Exchange Pl., Jersey City. About $15,038.

N. J., Mt. Holly—Bd. Chosen Freeholders let contract Mt. Holly-Chambers Corner Rd. to CHARLES T. EASTBURN CO., Bourse St., Philadelphia, Penn. About $30,301.

N. J., Morristown—Bd. Chosen Freeholders received low bids for improving Mt. Pleasant Turnpike from Hanover to Whippany from Miles-Tighe Co., Easton, Penn., $54,407; Gray Construction Co., Morristown, $55,832; Osborne & Marsellis, Belleview Ave., Montclair, $56,746. Noted June 29.

N. J., Newark—Bd. Chosen Freeholders received low bids for paving portion of Hudson County Blvd. from W. T. S. Critchfield, 5th St., Hoboken, about $52,000, and Standard Bitulithic Co., 31 Clinton St., Newark, $54,330.

N. J., Newark—City let contract grading portion Ave. R to NEW YORK & NEW JERSEY CONSTRUCTION CO., Essex Bldg., $147,534. Noted Aug. 3.

N. J., New Brunswick—City Comn. let contracts paving to T. H. RIDDLE, 102 Church St., George St., $2.70 per sq.yd., Elm Row, Redmond and Bayard St. and Carroll Pl., $1.77, Spring St., $2.70; UTILITY CONSTRUCTION CO., 46 Paterson St., Commercial Ave., $1.82; A. JELIN, 4 Paterson St., Burnet St., $2.65.

N. J., Passaic—City let contract Midvale-Pompton Rd. to GEORGE F. BRACKETT. About $72,755.

N. J., West Hoboken—Council let contract paving portion Savoye St. to CLINTON CONTRACTING CO., West Hoboken. Noted July 27.

Penn., Dunmore—City let contracts paving to SWEENEY BROS., Dunmore, Drinker St., $24,282, Larch St., $16,386. Noted July 20.

Penn., Harrisburg—City let contract paving portion Hickory Rd. to SOUTH SHORE CONSTRUCTION CO., Erie. About $10,999.

Penn., Hollidaysburg—Borough let contract paving Wayne St. to A. FOGE.

Penn., Ingram—(Pittsburgh post office)—Council rejected bids for paving portion Tunnell St. D. H. Hainer, Secy. Noted Aug. 10.

Penn., Irwin—City let contract paving North Main St. to H. DE ANGELIS.

Penn., Lebanon—City let contract paving portion Church and Willow St. and Doe and Walnut Alley to DWYER & CO., 1523 Chestnut St., Philadelphia. Noted July 20.

Penn., Midland—Borough Council let contract paving Midland Ave. to ANGELA CUPANI, Midland. About $10,592.

Penn., Narberth—City let contract resurfacing roads to A. C. SHAND, JR., Commercial Trust Bldg., Philadelphia. Noted May 11.

Penn., Pittston—City let contract paving 6,000 ft. road from Pittston City line south through Port Griffith to O'BRIEN BROS., Avoca.

Penn., St. Marys—City let contract improving streets to JOSEPH WIESNER. About $13,000.

Penn., Sewickley—City let contract paving 2 alleys to RALPH V. BALDWIN, 1361 4th Ave. Coralpolis.

Penn., Somerset—City let contract paving and grading North, East and West Union St. to D. E. KELLER.

Penn., Somerset—Boro. Council let contract grading driveway on North Pleasant St. to E. E. KELLER.

Penn., Spangler—Cambria County let contract paving to POLO C. AZZARO, Barnsboro. About $18,900.

Penn., Uniontown—County received following bids for brick paving: Luzerne Township, 4,075 ft., Bell-Bockel Co., $24,570; Redstone Township, 9,239 ft., Hoblitzell & Price, $52,043; German Township, 15,840 ft., Bell-Bockel Co., $78,496.

Penn., West Wyoming—(Wyoming post office)—City let contract paving 8th St. to M. J. MALLOY, Sugar Notch.

Penn., Wilkes-Barre—County let contract resurfacing road to O'BRIEN BROS., Avoca. About $55,000.

Penn., Windber—City let contract paving Graham Ave. to TORQUATO BROS. About $1[illegible]272. W. J. Vickroy, City Engr. Noted June 29.

Md., Chevy Chase—City let contract grading sidewalks and roads to E. G. GUMMELL, 300 Rhode Island Ave., Washington, D. C. About $30,000.

Md., Frostburg—City let contract paving Bowery St. to HOSKIN & NEAL.

Va., Portsmouth—Norfolk County Bonding Com. let contract road to ADDENBROOK & CO., Norfolk.

Va., Portsmouth—County Rd. and Bridges Com. let contract clay-gravel road to O. L. WILLIAMS. About $11,000.

W. Va., Bluefield—Council let contract 15,000 sq.yd. bituminous macadam, 14,000 lin.ft. curb, to R. F. BAKER, Bluefield. Noted July 13.

W. Va., Bluefield—City Council let contract paving Jones St. to J. D. SHOTT, and Marshall Reese, 3rd, Peck, Scott, Lee, Bedford, Allen Wayne and Pulaski St. to R. F. BAKER.

W. Va., Elkins—(Official)—Randolph County let contract road improvements in Leadville Dist. to R. M. HUDSON PAVING AND CONSTRUCTION CO., Charleston. About $217,719. Noted Aug. 3.

W. Va., Lewisburg—(Official)—Greenbrier County, Blue Sulphur Dist., defeated $75,000 road bonds. Address County Clk., Lewisburg. Noted July 6.

W. Va., Moundsville—(Official)—City Council let contract paving portion Elm Ave. to R. J. McFADDEN, Moundsville. Noted July 27.

W. Va., North View—(Official)—City let contract grading and curbing Turnpike, 7th and 6th St. and Goff Ave. to WAYNE F. ALLEN, Clarksburg. About $23,400. Noted July 27.

W. Va., Wheeling—City let contract paving portion Elm, Vine, Virginia and Indiana St. to CLIFFORD & SHANNAFELT.

Ga., Atlanta—City let contract paving Peachtree St. to GULF PAVING CO., Chattanooga. Noted Aug. 10.

Fla., De Land—New Smyrna Special Rd. and Bridge Dist. let contracts shell roads to HAMILTON & JOHNSON, Orlando, $96,449; BRYSON & BRYSON, Jacksonville, shell, $30,206, concrete, $51,248; ACKERMAN & ELLIS, Titusville, brick $14,042. Noted July 20.

Fla., Kissimmee—City let contract sidewalks on Mabette and Mitchell St. to A. L. DAVIDSON.

Ala., Wetumpka—Elmore County let contract road work to J. M. COLLINS, Eclectic, about $16,000. Noted July 6.

Miss., Corinth—(Official)—Alcorn County let contract 15-mi. gravel road to CORUTHERS & CO., Booneville. About $53,000. Noted July 20.

Miss., Greenwood—City let contract paving to MEMPHIS ASPHALT AND PAVING CO., Memphis, Tenn. Noted Aug. 3.

Miss., Meridian—City let contract concrete curb and gutter to JOHN E. WRIGHT.

Miss., Pascagoula—Jackson County let contract Pascagoula-Gautier Highway between East and West Pascagoula Rivers through salt marshes, including bridge over West Pascagoula River, to HANCOCK, HARBIN & HANCOCK, Mobile about $100,000. Noted May 18.

La., Shreveport—Police Jury let contract Arkansas Rd. and raising 12 mi. Bayou Rd. to J. M. BYRD, Shreveport, $15,746.

Tenn., Kingsport—Kingsport Improvement Co. let contract 5 mi. concrete sidewalks to OLIVER & HILL, Kingsport.

Tenn., Waverly—(Official)—County let contract road to McEwen to OLIVER-HILL CONSTRUCTION CO. About $15,000. Noted July 20.

Ohio, Akron—City let contract improving portion Bellows St. to CHARLES H. WATTERS. About $22,612.

Ohio, Bowling Green—City let contract improving Pike Ave. to L. M. BECKARD. Noted July 20.

Ohio, Canton—County let contract sidewalks Lincoln Heights, Stark County to FONDRIEST BROS., 1028½ Market St.

Ohio, Cincinnati—City let contract section Bloody Run Blvd. to CONCRETE CINDER CO., cinder; J. BURNS, stone; ATLANTIC REFINING CO., asphalt Binder. About $31,000.

Ohio, Cincinnati—(Official)—Bd. Park Comrs. let contract crushed stone, screenings and torpedo sand for road in Sect. No. 3 to ATLANTIC REFINING CO., Philadelphia. About $14,315. Noted July 20.

Ohio, Cleveland—Bd. Control let contract paving Abbey Ave. to R. P. BURNETT, 527 Society for Savings Bldg., Cleveland.

Ohio, Cleveland—(Official)—City let contract paving West Blvd. to TRINIDAD PAVING CO., Lakeside Ave., Cleveland. About $20,000. Noted July 27.

Ohio, Cleveland—Cuyahoga County let contract improving portion Richmond Rd. to FALLS CONSTRUCTION CO., Chagrin Falls. About $58,831. Noted July 13.

Streets and Roads (Continued)

Ohio, Cleveland—City plans to repave East 71st St., asphalt, by day labor.

Ohio, Columbus—County Comrs. let contract resurfacing roadway to CITY ROAD PRESERVING CO., Cincinnati. About $35,160. Noted Aug. 3.

Ohio, Columbus—State Highway Comn. received low bids highways in various counties as follows: Allen County, 2 mi. Kenton-Lima Rd., brick, H. S. Enck, Lima, $55,875, C. E. Williams, Grand Rapids, $55,604; asphalt, Johnson Construction Co., Chicago, $51,238, C. E. Williams, Grand Rapids, $50,991; Athens County, 0.37 mi. Logan-Athens Rd., brick, Mariner & Sons, Athens, $5,422, B. F. & W. A. Eddy, Trimble, $5,499; Auglaize County, 0.61 mi. Kenton-Wapakoneta Rd., brick, concrete and water-bound macadam, E. C. Lewis & Co., Lima, $22,800, W. J. Powell, Wapakoneta, Ohio, $21,978; Gallia County, 0.78 mi. Ohio River Rd., water-bound macadam, W. H. Mart, Gallapolis, Ohio, $6,994; Geauga County, 5.46 mi. Cleveland-Meadville Rd., concrete and brick, H. W. Curry & Co., Eaton, $72,550, Kennedy Warner Co., Medina, $72,995; Henry County, 3.35 mi. Toledo-Napoleon Rd., water-bound macadam, J. A. Westrick, Holgate, $36,600, A. L. Strayer, Liberty Center, $39,065; Lawrence County, 1.06 mi. Ohio River Rd., bituminous macadam, Tripeer & Patterson, Columbus, $14,327, Siepel & Wolfe, Youngstown, and John M. Trapper, Kipps Hill, $14,517 each; concrete, John M. Trapper, Kipps Hill, $16,892; Lawrence County, 1 mi. Ohio River Rd., bituminous macadam, Tripeer & Patterson, Columbus, $11,028, Sieple & Wolfe, Youngstown, $11,845; Lawrence County, 2.19 mi. Ohio River Rd., bituminous macadam, brick or concrete; bituminous macadam, Seipel & Wolfe, Youngstown, $17,721, Tripeer & Patterson, Columbus, $19,142, Charles & George Mahl, Ironton, brick, $29,436, concrete, $30,334; Logan County, 0.34 mi. Bellefontaine-Richwood Rd., concrete, Obriant & Gregg, Marysville, $5,594, A. P. Deitrick & Gabriel, Bellefontaine, $6,129; Mahoning County, 1.72 mi. Youngstown-Akron Rd., brick, Doolittle & Garland, Kent, $24,859, Smith Construction Co., Youngstown, $25,111; Mahoning County, 2 mi. Youngstown-Lowellville Rd., brick, Smith Construction Co., Youngstown, $35,478, Olson Construction Co., Youngstown, $35,848; Mercer County, ½ mi. Celina-Wabash Rd. concrete, Burnett & Christen, Rockford, $7,190; Monroe County, grading, 3½ mi. Woodsfield-Barnesville Rd., and building bridges and culverts, Green & Getman, Kent, $16,697, W. W. Patton, Woodsfield, $17,992; Perry County, 1.9 mi. Newark-New Lexington Rd., water-bound macadam, Wilson Yardley Co., Newark, $22,003, Harness Rennick, Williamsport, $23,500; Pickaway County, 2.63 mi. Cincinnati-Zanesville Rd., water-bound macadam, Other M. Junk, Chillicothe, $14,200; Preble County, 4.45 mi. Dayton-Indiapolis Rd., bituminous macadam, H. W. Curry & Co., Eaton, $33,860, Mings & Strayton, $35,520; Putnam County, 1.47 mi. Findlay-Delphos Rd., water-bound macadam, Carey & McEllroy, Ada, $6,933, Creager & Co., Hamler, $7,282; Putnam County, 2.15 mi. Ottawa-Findlay Rd., water-bound macadam, O. L. Smith, Leipsic, $11,764, J. W. McDowell Co.; Ottawa, $12,506; Putnam County, 0.37 mi. Findlay-Delphos Rd., concrete, J. W. Acton, Vaughnsville, $7,733; Ross County, 0.57 mi. Portsmouth-Columbus Rd., brick, Brewer-Tomilson & Brewer, Chillicothe, $9,683; Sandusky County, 2.16 mi. Lima-Sandusky Rd., water-bound macadam, Thomas Construction Co., Sandusky, $22,336, Pearson & Welch, Fremont, $22,743; Scioto County, 0.97 mi. Ohio River Rd., brick, S. Monroe & Son, Portsmouth, $21,800; Vinton County, 1.77 mi. McArthur-Gallapolis Rd., with brick, Keener & King, Jackson, $19,365.35, concrete, $17,443.

Ohio, Dayton—City let contract paving Victor, Grafton and Brighton Ave. to C. HOLLIHAN, Dayton, $21,066.

Ohio, Dayton—City let contract paving 5th St. to E. RYAN. Springfield, $50,860. Noted Aug. 10.

Ohio, Deshler—(Official)—Village let contract improving portion Maple St., brick, to C. S. WITHAM, Deshler. About $24,409. Noted Aug. 3.

Ohio, East Liverpool—City let contract paving Midland Ave. to ANGELO CURTANI, Midland. About $10,592.

Ohio, Findlay—City let contracts paving to H. J. HALL & SON, Findlay, and W. H. RINGWALD & SONS, Chillicothe.

Ohio, Flushing—(Official)—City let contract paving High St., brick or concrete, to W. N. MILLER, St. Clairsville, about $16,582. Noted July 27.

Ohio, Fremont—Bd. Control let contract paving Carbon St. to HIGHWAY IMPROVEMENT CO., and Rawson Pl. and Hage St. to MODERN CONSTRUCTION CO. Noted Mar. 30.

Ohio, Holloway—Belmont County let contract grading and paving to G. H. RICE, Belmont.

Ohio, Marion—City let contract paving portion Carpent St. to P. DRAKE & SON. About, $4,000.

Ohio, Martins Ferry—(Official)—Bd. Control let contract paving portion Elm, Vine and Virginia St. to CLIFFORD & SHANEFELT, Martins Ferry. Noted Aug. 3.

Ohio, Newark—City let contract paving portion Wyoming St. to FEDERAL ASPHALT PAVING CO., Hamilton. About $8,000. Noted June 15.

Ohio, New Lexington—City let contract paving Broadway, Pleasant and Ferrara St. to BARTHLOW & SON, Logan, $12,935.

Ohio, Norwood—Dir. Pub. Ser. let contract Floral Ave., creosoted wood block to HINKLE & SULLIVAN, Cincinnati. About $36,000.

Ohio, Piqua—City let contract improving portion Broadway to HENNESSY BROS., Troy. About $40,000.

Ohio, Piqua—Bd. Control let contract paving portion Ash St. to ANDREWS PAVING CO., Hamilton. Noted June 29.

Ohio, Port Clinton—(Official)—City let contract paving and curbing 11 blocks, concrete, to MARSMAN & GREEN, Grand Rapids, Mich. About $10,214. Noted July 20.

Ohio, Ravenna—(Official)—City let contract paving to MORGAN BROS., Ravenna, $22,011, Grant, Mill and Page St.; $16,464 Prospect St. Noted July 27.

Ohio, Springfield—City let contract paving Fountain Ave. to M. J. KANNON. About $25,000. Noted Feb. 17.

Ohio, Sylvania—(Official)—Village let contract paving Bank and Indiana St. to F. R. MARSH, Sylvania. About $11,166. Noted Aug. 3.

Ohio, Warren—City let contract improving portion of Olive St. to SMITH ENGINEERING AND CONSTRUCTION CO. About $15,000. Noted June 22.

Ohio, Washington—Court House—City let contract paving portion Fayette St. to BOLAN, WILT & KELLY, about $37,066; North Main St., ANDREWS ASPHALT PAVING CO., about $4,000. Noted May 25.

Ohio, Wooster—(Official)—County Comrs. let contract Orville-Smithville Rd. to MIDLAND CONSTRUCTION CO., Lima. About $63,337.

Ind., Brownstone—(Official)—Jackson County let contract macadam road in Vernon Township to OHIO CONSTRUCTION CO., Rushville. About $18,285. Noted July 13.

Ind., Decatur—City let contract improving Line St. to L. W. FRANKS & SON.

Ind., Greensburg—(Official)—Decatur County let contract road in Washington Township to JAMES A. STAGG, Greensburg. About $7,188. Noted July 13.

Ind., Indianapolis—County let contract Snyder Rd. to ALLEN, HURST & SWEET, Greencastle. About $10,490.

Ind., Jeffersonville—(Official)—Clark County let contract road in Silver Creek Township to MARTIN F. O'NEIL, Jeffersonville. About $8,300. Noted July 13.

Ind., Laporte—(Official)—Laporte County let contract road in Springfield Township to LOUIS MARTINE, Laporte. About $8,180. Noted July 20.

Ind., Laporte—(Official)—Laporte County let contract road in Center and Scipio Townships to FRANK J. KING, Laporte. Noted July 20.

Ind., Lebanon—(Official)—County let contract road in Eagle Township to DAVIS CONSTRUCTION CO., Cicero. About $26,495. C. Goodwin, Audr. Noted July 3.

Ind., Madison—City let contract macadam road to JAMES E. MILES, Madison, about $4,400, and WENDEL P. JACOBS, Madison, about $4,200.

Ind., New Castle—County let contract 12-mi. concrete road to C. M. KIRKPATRICK, Greenfield. About $12,000.

Ind., Richmond—County let contract concrete road to C. M. KIRKPATRICK, Greenfield. About $149,000.

Ind., Rochester—County let contract Robbins Rd., Rochester Township to MELVIN HAY.

Ind., Valparaiso—(Official)—Porter County let contract gravel roads in Portage and Liberty Townships to GARY CONSTRUCTION CO., Gary. About $17,290. Noted July 13.

Ind., Winchester—(Official)—County let contract road to JOHNSON & DULL, Lynn, and SETH HINSHAW, Winchester. Noted Aug. 10.

Mich., Coldwater — County let contract road work in Quincy and Butler Townships to S. C. BISHOPP, Hillsdale.

Mich., Grand Rapids—City let contract paving Underhill Hall to Bultema Bros., 1060 Godfrey Ave. About $13,000.

Mich., Iron Mountain—City let contract 5,000 ft. curb and gutter and 50,000 ft. cement walk to J. R. HELFELTZ CO., Iron Mountain.

Mich., St. Johns—County let contract grading, putting on slag and gravel, 3½ mi. Class C, trunk-line highway to A. L. TRIPP, St. Johns. About $23,100. Noted Aug. 3.

Ill., Chadsworth—City let contract paving 4th and 5th St. to R. WILLIAMS, Normal.

Ill., Chicago—City let contract Bullard Rd. to J. C. SHIELDS, Highland Park. About $56,209.

Ill., Harrisburg—City let contract paving in Jackson Paving Dist. to CHARLES DAGENHART, Alton.

Ill., Harvard—City let contract paving to JOHNSON CONSTRUCTION CO., Adams Express Bldg., Chicago.

Ill., Highland Park—City let contract paving and bridges to WESTERN IMPROVEMENT CO., Racine, Wis.

Ill., Marion—(Official)—County let contract 3 mi. concrete road to W. LOUGH & SON, Marion, $9,107, Route 1, Sec. J; R. JOHNSON, 3204 North Clark St., Chicago, $11,345, Route 14, Sec. Q; B. A. FLODIN, Chicago, $8,402, Route 9, Sec. K. Noted Aug. 3.

Ill., Milan—City let contract paving to ANTON SWANSON, Moline. About $24,000.

Ill., Oak Park—Village Bd. let contracts paving as follows: Lexington St. to H. G. GOELITZ CO., 810 N. Blvd., Oak Park, about $20,870; Ridgeland and Elmwood Ave. to STANDARD PAVING CO., 29 S. La Salle St., Chicago, about $20,835 and $19 000.

Ill., Peoria—City let contracts paving portion Fulton St. to JOHN McALLISTER, $14,233; Elm St. to MILLER & BIEHL, $4,892; Lincoln Ave. to CENTERBURY BROS., $7,888. Noted May 4.

Ill., Peru—City let contract paving 9th St. to TROMPETER & SONS, Peru. Noted July 6.

Ill., Springfield—Highway Comn. let contracts for state aid work as follows: Morgan County, Sect. B, oiled earth, to COCKING CEMENT CO., Jacksonville, $18,271; Whiteside County, Sect. D, gravel, to H. P. JOHNSON, Sterling, $13,915; Marion County, Sect. D, gravel, to G. K. CARVER, Mt. Vernon, $8,268; Jersey County, Sect. D, oiled earth, to STOCKER GRAVEL AND CONSTRUCTION CO., Highland, $3,506; Vermilion County, Sect. E, brick and water-bound macadam, to ECLIPSE CONSTRUCTION CO., Winnetka, $49,445; La Salle County, Sect. 1, concrete, to F. E. BALL, Hampshire, $9,272.

Ill., Springfield—State Highway Comn. let contracts for state aid work as follows: Bond County, Sect. C, brick, to JOHN HINDEN & SON, Pana., $7,193; Hancock County, Sect. A, earth, to SIEUR BROS., Dallas City, $3,670; Boone County, Sect. E, concrete, to FRANK TAYLOR, Belvidere, $5,008; Boone County, Sect. A, water-bound macadam, to J. J. O'LAUGHLIN, 133 West Washington St., Chicago, $12,698; Monroe County, Sect. C, earth, to JOHN HENERFOUTH, Volmeyer, $2,642.

Wis., Ableman—City let contract paving Broadway to W. & O. CONSTRUCTION CO., Madison.

Wis., Milwaukee—Dept. Pub. Wks. received low bids for paving as follows: W. T. McGovern Co., Clinton St., granite block, $9,089; Clubourn St., vitrified brick, $7,287; P. C. Kroeck, 31st Ave., bituminous concrete, $4,957; White Construction Co., Becher St., asphalt, $11,993; Cedar St., asphalt, $10,956; Badger Construction Co., 15th St., asphalt, $4,132; 8th St., asphalt, $11,464; John Weiher, 35th St., sandstone and creosoted block, $23,750; Dean Construction Co., Holton St., creosoted block, $16,680.

Wis., Mineral Point—City let contract curb and gutter to O. K. HUGO.

Wis., Sauk City—City let contract paving to HUTTER & OCCOLA.

Wis., Stoughton—Common Council let contract paving Main St., vitrified block, to SWEENEY BROS., Reedsburg. About $13,837. Noted July 27.

Wis., West Allis—Act. Bd. Pub. Wks. received low bid for grading and paving, concrete, portion Beloit Rd. from KROENING CONSTRUCTION CO., Majestic Bldg., Milwaukee. Noted July 27.

Iowa, Tipton—(Official)—Cedar County let contract grading 7 mi. road to THOMAS CAREY & SON, Clinton. About 25½c. cu.yd. Noted Aug. 3.

Minn., Duluth—Rogers, McLean & Co., Duluth, at $10,292, only bidder paving Minneosta Ave.

Minn., Littlefork—County let contract State Rd. No. 3 to OLAF BOVOLD.

Kan., Ft. Scott—City let contract paving and guttering to THOGMARTIN & GARDNER, Ft. Scott. About $11,429.

Neb., Fremont—(Official)—City let paving I St. to ROBERTS CONSTRUCTION CO., Lincoln. Noted Aug. 3.

Mont., Billings—City let contract paving Yellowstone and Clarke Ave. to WARREN CONSTRUCTION CO., Portland, $64,000. Noted June 29.

Mo., Fulton—(Official)—City let contract paving and curbing to C. F. PETRY, Marshall. About $6,076. Noted July 27.

Mo., Joplin—City let contract paving portion 7th St. to C. B. ANDERSON. Noted Mar. 9.

Mo., Joplin—City let contract paving portion South Main St. to SHELBY DOWNARD, Oklahoma City. About $29,205.

Mo., Sedalia—(Official)—City let contract paving portion 4th St., brick, to GRAHAM CONCRETE PRODUCTS CO., Sedalia. About $1.67½c. sq.yd. Noted July 27.

Ark., Helena—(Official)—City let contract 2 mi. concrete paving to P. F. CONNOLLY, Little Rock, about $26,000. Noted July 13.

Tex., Dallas—City let contract paving portion Hudson St. to VIBROLITHIC CONSTRUCTION CO., Dallas.

Tex., Galveston—City let contract supplying and spreading mainland soil surfacing to GOOD ROADS Association Construction Co., Galveston, $18,750.

Tex., Houston—City let contract paving portion Capitol and Jackson Ave. to EUREKA PAVING CO.

Tex., Waxahachie—City Council let contract paving Ferris Ave. to TAYLOR, WALKER & BELL, Dallas. About $40,000. Noted May 18.

Streets and Roads (Continued)

Okla., Ardmore—(Official)—City let contract improving streets to ARDMORE CONSTRUCTION CO., Ardmore. About $17,473. Noted Mar. 9.

Colo., Glenwood Springs—(Official)—Garfield County let contract 2,350-ft. highway to FRAVERT & PRENDERGAST, Rifle. About $6,500. Noted July 27.

Colo., Lamar—City let contract improving state road to M. U. DEWALD, Holly, Colo.

N. M., Albuquerque—(Official)—City rejected bids for paving. T. Hughes, Clk. J. E. Hutchinson, City Engr. Noted July 27.

N. M., Socorro—(Official)—State Highway Comn. to construct Socorro-Mohollen Rd., Blue Cañon, by day labor. Noted July 27.

Idaho, Lewiston—(Official)—City let contract 2,766 sq.yd. 6-in. 1-course concrete paving, 13,395 sq.yd. 3-in. concrete paving and 3,650 ft. concrete curb, to C. M. PAYNE, Spokane, Wash. About $6,973. Noted Aug. 3.

Utah, Salt Lake City—City let contract paving several streets to P. J. MORAN. About $15,938.

Wash., Everett—City let contract paving portion Norton Ave. and 35th St. to WARD & TEMPLETON, Everett, $10,516. Noted June 22.

Wash., Ilwaco—City received bids paving from L. F. Kline, Portland. concrete, $10,991; W. M. Oller, Portland, 4-in. bitulithic, $13,118, 5-in. bitulithic, $13,473, standard bitulithic, $13,906.

Wash., Kent—(Official)—City let contract resurfacing Meeker St., concrete, to WASHINGTON PAVING CO., Seattle. About 93c. per sq.yd. Noted July 27.

Wash., Olympia—State Highway Comn. let contract to M. P. ZINDORF, Seattle, at $17,418, for highway between Orilla and Renton, Bear River Rd., $24,885.

Wash., Port Townsend—(Official)—Jefferson County let contract 7 mi. road to Leland Valley to JAMES H. COYNE, Port Townsend. About $12,986. Noted Aug. 3.

Wash., Republic—Ferry County let contract paving Permanent Highway No. 1-B to R. L. PICKEN, Tonasket, $11,238. Noted July 27.

Wash., Seattle—Bd. Pub. Wks. received low bid paving 14th Ave., S., from Holt & Jeffrey, Railway Exchange Bldg., $19,943.

Wash., Waterville—County let contract improving 21½ mi. road to PATTON & SMITH, Prosser, $19,879. Noted July 27.

Ore., Roseburg—County let contract Gardiner Rd. to HINSDALE & JEWETT, $14,154. Noted July 27.

Calif., Bakersfield—Kern County let contract paving and culverts on section Bakersfield-Glenville Rd., Div. 9, Sec. 7, to G. S. BENSON & SON, Stimson Bldg., $10,224.

Calif., Hanford—City let contract 17½-mi. macadam-asphalt paving to THOMPSON BROS., Fresno. About $58,875. Noted June 29.

Calif., Los Angeles—City to let contract for paving Arcadia St. and Boyle Ave. and other streets about Sept. 15. H. Hamlin, City Engr.

Calif., Los Angeles—City let contract improving Pacific Ave. to FAIRCHILD-GILMORE-WILTON CO., Pacific Electric Bldg., $37,967.

Calif., Los Angeles—City let contract improving Crocker St. to FAIRCHILD-GILMORE-WILTON CO., Pacific Electric Bldg., $10,078.

Calif., Pasadena—City let contract improving Hawthorne St. to W. A. KEEP, 19 S. Olive St., Alhambra. About $6,474.

Calif., Redwood—(Official)—County rejected bids for surfacing 7½ mi. Redwood-San Gregorio Highway. Noted Aug. 3.

Calif., Sacramento—City let contract improving J St. to CLARK & HENERY CONSTRUCTION CO.

Calif., South Pasadena—City let contract improving Hawthorne St. to W. A. KEEP, 19 So. Olive St., Alhambra. About $6,474.

Calif., Ukiah—(Official)—County let contract road at Salmon Creek to STODDARD & BUCHANAN, Ft. Bragg. About $10,061. Noted Aug. 3.

Calif., Ventura—Ventura County received low bids improving 8.77 mi. Somas to Santa Clara River Rd., Div. 7, from A. Holloway, 471 South Broadway, Pasadena, $31,026; White & Gaskell, Long Beach, $35,257; Rogers Bros. Co., Hiberian Bldg., Los Angeles, $37,398. Noted Aug. 3.

Ont., Galt—City let contract asphalt paving to STANDARD PAVING CO., Ottawa.

INDUSTRIAL WORKS

Proposed Work

Mass., Chelsea—Fleischer Bros., 59 Elm St., making plans for 2-story, 45x95-ft. warehouse. S. S. Eisenstein, 5 Everett Ave., Arch.

Conn., Bridgeport—C. M. Cole making plans for 7-story warehouse. Lockwood, Greene & Co., 60 Federal St., Boston, Mass., Engrs.

N. Y., Albany—M. A. Shafer, 22 Colvin Ave., making plans for 2-story, 50x100-ft. garage. About $25,000. F. V. Hogan, 164 Montgomery St., Arch.

N. Y., Albany—Wilson & Co., 31st St. and Ashland Ave., Chicago, made plans for refrigerating plant at Albany.

N. Y., Binghamton—Ballard Silk Mills Co. plans 50x200-ft. addition to plant on Milford St. About $75,000. H. D. Ballard, Mgr.

N. Y., New York—(Brooklyn)—Bahl-Abbott Construction Co. making plans for 1-story, 100x135-ft. garage. About $25,000. S. Millman & Son, 1780 Pitkin Ave., Arch.

N. Y., New York—(Manhattan)—(Official)—Dept. Pub. Charities, Municipal Bldg., receiving bids Aug. 31 for 9-story storage building on Blackwells Island. J. A. Kingsbury, Comr. Noted Aug. 17.

N. Y., New York—(Manhattan)—Robert Gordon Realty Co., 37th St. and East River, made plans for 6-story, 30x201-ft. garage. About $80,000. Rouse & Goldstone, 38 West 32nd St., Arch.

N. Y., New York—(Manhattan)—Seaman Litchenstein Estate, 105 Barclay St., making plans for 4-story, 50x96-ft. garage. About $65,000. A. W. D. Wood, 103 Park Ave., Arch.

N. Y., Watervliet—Appropriation of $680,000 made for improving Watervielt Arsenal and building machine shop. Col. W. W. Gibson, in charge.

N. Y., Whitehall—Supt. of Pub. Wks. approved plans for 2-story, 33x210-ft. warehouse and office building. About $27,000. F. M. Williams, Telephone Bldg., Albany, State Engr.

N. J., Atlantic City—H. Best, 130 South Chalfonts Ave., making plans for 2-story warehouse and garage. Stout & Rebenack, Guarantee Trust Bldg., Arch.

N. J., Jersey City—Duryea Manufacturing Co. making plans for factory buildings on Chapel Ave. About $60,000. J. T. Rowland, Jr., 100 Sip Ave., Arch.

N. J., Jersey City—Wilson & Co. plans 4-story addition.

N. J., Lambertville—Lambertville Rubber Co. made plans for 3-story vulcanizing plant. Ballinger & Perrott, 17th and Arch St., Philadelphia, Arch.

N. J., Paterson—Paterson Industrial Development Co. making plans for 4-story, 75x310-ft. factory at Gray St. and Beckwith Ave. About $145,000. F. W. Wentworth, 140 Market St., Paterson, Arch. J. J. Fitzgerald, Secy. Paterson Chamber of Commerce. Noted July 6.

N. J., Union Hill—(Weehawken post office)—Hudson Despatch News making plans for 4-story, 100x100-ft. printing building. About $50,000. J. D. Lugesch, 21 Bergenline Ave., Arch.

Penn., Harrisburg—Pennsylvania Milk Products Co. making plans for 1-story, 40x100-ft. milk depot and dairy building. About $35,000. C. D. Cooley Co., Century Bldg., Pittsburgh, Arch.

Penn., Reading—Vogue Knitting Co., c-o Reading Underwear Co., making plans for 2-story, 40x120-ft. addition. About $15,000. E. Hickman, 119 South 5th St., Arch.

Penn., Scranton—Wagner Fire Brick Co. making plans for plant. About $100,000. A. E. Wagner, Union National Bank Bldg., Gen. Mgr. Noted Aug. 3.

Md., Baltimore—Montgomery Chemical Co. making plans for 1-story, 50x100-ft. factory. About $10,000.

Md., Baltimore—S. E. Stewart, 1421 Mt. Royal Ave., plans 3-story warehouse. About $30,000. J. E. Moxley, Jr., 1709 Edmonson Ave., Arch.

Va., Alexandria—Southern Ry. making plans for roundhouse, machine shop, etc. B. Herman, 1300 Pennsylvania Ave., Washington, D. C., Ch. Engr. M. W. and Streets.

Va., Richmond—S. T. Veverage plans garage. About $50,000. H. S. Barnham, Chamber of Commerce Bldg., Arch.

La., New Orleans—J. T. Gibbons plans rein.-con. feed and grain plant. About $225,000.

Ky., Louisville—Louisville Provision Co. making plans for 4-story, 48x200-ft. addition to packing plant. About $200,000. Henschien & McLaren, 37 West Van Buren St., Chicago, Arch.

Ohio, Akron—General Tire and Rubber Co. plans 1-story, 60x200-ft. addition. Osborn Engineering Co., Engineers Bldg., Cleveland, Engr. M. O'Neil, East Market and Lucile St., Pres.

Ohio, Cincinnati—Union Thread Co. plans addition, 69th St. and Big Four tracks.

Ohio, Cleveland—Abbotts-Detroit Automobile Co. interests plan factory.

Ohio, Cleveland—Allyne-Ryan Foundry Co., Aetna Rd. and East 91st St., plans plant on East 185th St.

Ohio, Cleveland—Perry-Prospect Co. granted permit for 2-story repair shop at 2111 Prospect Ave. About $10,000.

Ohio, Cleveland—Prospect—Fifty-fifth Street Co. plans storage building at East 55th St. and Euclid Ave. About $50,000. P. Salem, Cuyahoga Bldg., Secy. and Treas.

Ohio, Cleveland—River Furnace Co., 2,600 West 3rd St., plans plant near Morgan Run.

Ohio, Cleveland—Sanitary Tinning Co. making plans for 1- and 2-story factory. About $50,000. A. J. Miller, 2365 Canal Rd., Pres. and Gen. Mgr. C. D. Cooley Co., Century Bldg., Pittsburgh, Arch. Noted June 22.

Ohio, Cleveland—Van Sweringen Bros., Marshall Bldg., made plans for 6-story warehouse and freight terminal at Broadway and Orange St. About $1,000,000. W. J. Watson & Co., Leader News Bldg., Arch. and Engr.

Ohio, Columbus—Columbus Bread Co. making plans for 1-story, 110x200-ft. bakery. About $25,000. A. G. Reck, North 4th and Lincoln St., Mgr. C. D. Cooley & Co., Century Bldg., Pittsburgh, Arch. Noted July 20.

Ohio, Mingo—Pullman Co., 72 East Adams St., Chicago, plans plant at Mingo.

Ohio, Toledo—Grasser Motor Co. receiving bids Aug. 29 for 2-story, 100x100-ft. service station. Bates & Gamble, 601 Close Bldg., Arch. Noted July 6.

Ohio Uhricsville—Mazurie Clay Products Co. making plans for 3-story factory. About $200,000. B. E. Ottman, Pres. Noted June 15.

Mich., Adrian—Adrian Steel Casting Co. plans to rebuild plant.

Mich., Jackson—Hackett Motor Co. making plans for 1 story factory. R. Finn, 1144 David Whitney Bldg., Detroit, Arch.

Ill., Champaign—W. H. Holzer making plans for 2-story, 106x130-ft. sales building and garage. About $22,000. G. E. Ramey, Stern Bldg., Arch.

Ill., Chicago—Chicago Transfer and Clearing Co., 5601 West 61st St., making plans for 1- and 2-story, 162x273-ft. addition to factory. About $75,000. S. N. Crowen, 30 North La Salle St., Arch.

Ill., Chicago—C. H. Foster Accessories Co. plans 5-story, 75x165-ft. service building. About $100,000. Marshall & Fox, 706 Lincoln Parkway, Arch.

Wis., Algoma—Ahanapee Veneer and Seating Co. making plans for two factories. W. W. De Long & Son, 842 College Ave., Appleton, Arch.

Wis., Green Bay—Hagemeister Realty Co. making plans for 2-story auto distributing building. About $50,000. Foeller & Schober, 123 North Washington St., Arch.

Wis., Kenosha—J. B. Pirach Co. making plans for 100x200-ft. paint shop. White, White & White, Public Service Bldg., Arch.

Wis., Milwaukee—American Show Print Co. making plans for 2-story plant. About $20,000. Herbst & Huffschmidt, Caswell Blk., Arch.

Wis., Milwaukee—Milwaukee Electric Light and Railway Co. making plans for 1-story car barn. About $100,000. R. H. Pinkley, Arch.

Wis., Milwaukee—David Rothman, 486 8th St., made plans for 2-story warehouse at 4th and Cherry St. J. Roth, Jr., Arch. Noted Mar. 16.

Iowa, Sioux City—Armour & Co. plans 7-story plant. About $75,000. H. C. Carlson, Gen. Mgr.

Minn., Duluth—Northern Pacific R.R. soon receives bids for car shops. O. A. Tolaas, 1258 Railroad Bldg., Arch. W. L. Darling, 1210 Railroad Bldg., Ch. Engr.

Minn., St. Paul—Vacuum Paper Board Co. plans factory at Midway. About $75,000.

N. D., Mandan—Northern Pacific Ry. plans machine shop. About $2,000,000. W. L. Darling, St. Paul, Ch. Engr.

Mo., Joplin—Missouri Pacific Ry. making plans for 1-story roundhouse. About $40,000. E. M. Tucker, Arch. E. A. Hadley, Railway Exchange Bldg., Ch. Engr.

Mo., Kansas City—Wabash Elevator Co. making plans for elevator. W. Lindensmith, 426 Board of Trade Bldg., Kansas City, Supt.

Ariz., Safford—Gila Valley Milling Co. plans flour mill and grain elevator. L. Goldschmidt, Tucson, Pres.

Calif., Alameda—Atlas-Imperial Engine Co. plans addition. About $25,000. A. Warenskjold, Pres.

Calif., Chico—Diamond Match Co. plans enlarging and improving plant. About $250,000.

Calif., Emeryville—Peoples Baking Co. plans 2-story plant. About $150,000. J. E. W. Vreeland, Mgr.

Calif., Los Angeles—Los Angeles Union Terminal Co. receiving bids Sept 19 for 2 market buildings and 2 warehouses, at 7th St. and Central Ave. About $3,500,000. B. Johnson, Gen. Mgr. Noted July 27.

Calif., Richmond—Richmond Carbon Works granted permit for addition. About $10,000.

Calif., San Francisco—C. R. Peterson plans 4-story factory at 15th and Vermont St. About $100,000. H. Shermund, Mills Bldg., Arch.

N. B., Moncton—Reed Co., Ltd., making plans for warehouse. About $10,000. F. N. Brodie, 42 Princess St., St. John, Arch.

Que., Thetford Mines—Thetford Mines Foundry Co. plans to rebuild foundry.

Ont., Brantford—Dominion Steel Products Co. plans factory. About $50,000.

Ont., Galt—Water-Works Comrs. plan ice plant. J. H. Radford, Chn.

Ont., London—London Rolling Mills Co. plans rein.-con. addition. About $50,000. F. White, Mgr.

Ont., Merritton—Lincoln Paper Mills made plans for addition. About $200,000.

Ont., Port Colborne—International Nickel Co., 43 Exchange Pl., New York, N. Y., plans plant and refinery at Port Colborne. About $4,000,000.

Ont., Toronto—Adams Harness Co., 204 King St., E., plans rein.-con. factory. About $80,000.

Man., Grand Rapids—See item under "Miscellaneous."

Man., Winnipeg—Winnipeg Paint and Glass Co. plans to rebuild plant.

Bids In and Contracts Awarded

Vt., Rutland—Howe Scale Co. let contract 2-story, 60x204-ft. assembling room and machine

Industrial Works (Continued)

shop to BERLIN CONSTRUCTION CO., Berlin, Conn. About $50,000.

Mass., Andover—H. T. Stevens & Sons Co. let contract addition to LEWIS & McALOON, North Andover.

Mass., East Taunton—Chandler Oil Cloth and Buckram Co., 97 Colony Ave., let contract 2-story, 60x250-ft. and 60x100-ft. factory to FRANKLIN D. WILLIAMS, 50 Weir St. About $40,000. Noted Mar. 23.

R. I., East Providence—Nonnabo Chemical Co. will build 2-story, 60x250-ft. factory by day labor. About $25,000. R. LeBowen, Gen. Mgr.

N. Y., Binghamton—Eastern Concrete Steel Co., D. S. Morgan Bldg., Buffalo, low bidder for two 1- and 2-story factories for Linde Air Products Co. About $35,000. H. D. Edwards, 42nd St. Bldg., New York, Engr.

N. Y., Cohoes—John Carside & Co., Pine St., let contract plant to T. HANRAHAN, 16 South Wendell Ave., Schenectady. About $10,000. Noted Nov. 4.

N. Y., Jamesville—T. Millen Cement Co. let contract 4-story factory to W. J. BURNS CO., 421 Bastable Bldg., Syracuse.

N. Y., New York—(Brooklyn)—City and Suburban Homes Co. let contract 1-story, 108x204-ft. garage to WALTER RYAN, 913 Bedford Ave. About $40,000.

N. Y., New York—(Manhattan)—William Bradley, 1 Madison Ave., let contract 3-story, 100x230-ft. garage to BRADLEY & WEED, 200 5th Ave. About $100,000. Noted June 22.

N. Y., New York—(Manhattan)—J. W. Hamburger Estate let contract factory to T. J. BRADY CO, 1170 Broadway. About $20,000.

N. Y., New York—(Queens)—Hunter Car Sign Co. let contract 1-story addition to factory at Flushing to F. JOHNSON, 46 Prospect St. About $10,000.

N. Y., New York—(Queens)—A. A. Renshaw, 26 Broadway, Manhattan, let contract garage at Forest Hills, L. I., to J. J. McCARTHY & CO., 326 East 42nd St., Manhattan.

N. J., Hoboken—F. J. Rooney Lamp Co., 14th St. and Willow Ave., let contract 3-story, 30x70-ft. addition to LEVENSON LUMBER CO., 15th St., Hoboken. About $10,000.

N. J., Irvington—Claudius Ash Sons & Co. let contract 1-story factory to W. H. CONNOLLY CO., INC., 295 12th St., Newark. About $85,000.

N. J., Paterson—De Grado Silk Finishing and Dyeing Co. let contract 2-story factory to ELIA & MARTINO, 436 Broadway. About $25,000. Noted Mar. 30.

N. J., Plainfield—Bosch Magneto Co. let contract storehouse and addition to boiler house to CASPER RANGER CONSTRUCTION CO., Holyoke, Mass.

N. J., Rahway—Merck & Co. let contract 3-story addition to SALMOND BROS. CO., 526 Elm St., Arlington. About $25,000. Noted Jan. 13.

N. J., West Orange—T. A. Edison Co., Inc., Lakeside Ave., let contract 2-story, 80x200-ft. factory to AMERICAN CONCRETE STEEL CO., Essex Bldg., Newark. About $75,000.

Penn., Arcadia—International Coupler Co. let contract 1-story, 50x175-ft. factory to H. L. KREUSLER, 3301 Penn Ave. About $20,000. Noted Aug. 17.

Penn., Erie—American Brake Shoe and Foundry Co., 12th and Payne St, let contract 1-story, 75x800-ft. factory to SAMUEL AUSTIN & SONS, 14230 Euclid Ave., Cleveland. About $80,000. Noted Aug. 17.

Penn., Erie—Old Home Baking Co. let contract 1-story, 76x100-ft. bakery to WILKINSON & MILLER, Marine Bank Bldg. About $25,000.

Penn., Mohrsville—J. H. Wagner let contract 1-story, 62x167-ft. factory to C. SCHLEGEL, 1224 Perkiomen Ave., Reading. About $12,000. Noted June 8.

Penn., Philadelphia—Storage Battery Co. let contract 1- and 2-story, 100x220-ft. factory to STEWART BROS., 2526 North Orkney St. About $45,000.

Penn., Philadelphia—Strawbridge & Clothier, 8th and Market St., let contract 1- and 2-story, 100x172-ft. garage to STACEY REEVES & SONS, 2011 Market St, Philadelphia. About $45,000.

Penn., Shoemakersville—Merit Underwear Co. let contract 2-story, 40x250-ft. factory to C. H. SCHLEGEL, 2224 Perkiomen Ave., Reading. About $10,000.

Md., Baltimore—Baltimore Tube Co. let contract 1-story addition to WEST CONSTRUCTION CO., American Bldg. About $30,000. Noted July 6.

Md., Baltimore—Pennsylvania R R. let contract rebuilding rein.-con. grain elevator to JAMES STEWART, INC., Chicago. About $2,000,000. Noted Aug. 3.

Va., Richmond—A. Hoen Co. let contract factory to TRAVERSE WOOD CO., American National Bank Bldg. About $60,000. Noted July 6.

Va., Richmond—David Marks, 3rd and Broad St., let contract 2-story garage to J. C. BEASLEY, Real Estate Exchange Bldg. About $25,000.

Ky., Hazard—Hazard Wholesale Grocery Co. let contract 2-story, 30x200-ft. warehouse to G. T. HOOD, Knoxville, Tenn.

Ky., Louisville—Kentucky Institute for the Blind, Frankfort Ave., let contract laundry and heating plant to NEVILLE KELLNER & CO., 417 West Main St. About $20,000. Noted June 29.

Ky., Louisville—Overland Automobile Agency, 4th and York St., let contract 3-story, 75x154-ft. garage and salesroom to HIEATT BROS., 401 Intersouthern Bldg. About $40,000.

Ohio, Akron—Commercial Printing Co. let contract 3-story addition to CARMICHAEL CONSTRUCTION CO., 524 Hamilton Bldg. About $30,000. Noted Aug. 17.

Ohio, Alliance—Morgan Engineering Co. let contract 1-story, 70x120-ft. forge shop to SAMUEL AUSTIN CO., 14230 Euclid Ave., Cleveland. About $15,000.

Ohio, Cleveland—Damascus Manufacturing Co. let contract 2-story factory to H. S. JUERGENS, 3315 West 25th St. About $20,000. Noted July 20.

Ohio, Columbus—E. N. Kalin let contract 2-story, 50x60-ft. factory to MARCUS BUILDING CO., Reading Rd. About $12,000.

Ohio, Columbus—Standard Bolt and Forging Co. let contract 1-story, 120x284-ft. bolt shop to McCLINTIC MARSHALL CO., Oliver Bldg., Pittsburgh.

Ohio, St. Bernard—Ubiko Milling Co. let contract factory to FERRO CONCRETE CONSTRUCTION CO., Richmond and Harriet St, Cincinnati.

Ind., Elkhart—Sidney Mercantile Co, Blaine Ave. and 14th St, let contract, 3 warehouses, to J. C. BONTRAGER, 701 Wolf Ave. About $15,000. Noted July 20.

Ind., South Bend—Slick Laundry Co., 126 South Main St., let contract 2-story, 40x120-ft. laundry to KUEHN & JORDAN, 2203 Kerelake Ct., River Park. About $10,000.

Mich., Benton Harbor—Superior Steel Casting Co. let contract factory on Graham St. to J. M. ALMENDINGER, Benton Harbor. Noted June 29.

Mich., Jackson—Pickell Storage Co. let contract 3-story, 44x160-ft. storage building to GRAHAM & THAYER.

Ill., Chicago—Chicago Junction Railway Co. let contract 6-story warehouse to G. A. FULLER CO., 140 South Dearborn St. About $400,000.

Ill., Chicago—Chicago, Rock Island & Pacific Ry. let contract elevator to T. S LEAKO & CO., 806 South Dearborn St. About $25,000.

Ill., Chicago—(Hawthorne)—Western Electric Co. let contract 1-story addition to BULLEY & ANDREWS, 25 North Dearborn St. About $30,000. Noted Aug 10.

Ill., Galena—Galena Glove and Mitten Co. let contract 2-story, 50x140-ft. factory to R. F. CONLON, Cuba, Wis. About $10,000. Noted Mar. 9.

Ill., Kewanee—National Tube Co. let contract 4-story, 60x109-ft. pattern-storage building to MONMOUTH GALESBURG CONSTRUCTION CO, Bank of Galesburg Bldg., Galesburg. About $50,000.

Ill., Oak Park—National Biscuit Co. let contract distributing station to WILLIAM ADAMS CO., 209 South La Salle St., Chicago. About $40,000.

Ill., Rockford—National Lock Co. let contract warehouse and boiler room to ANDREAS LINDEN, 1021 7th St.

Ill., Woodriver—International Shoe Co. let contract tannery to JAMES BLACK MASONRY AND CONSTRUCTION CO., Wright Bldg., St. Louis, Mo. About $400,000. Noted May 25.

Wis., Chippewa Falls—Chippewa Foundry and Machine Co. let contract foundry and machine shop to WISCONSIN CONSTRUCTION CO.

Wis., Neenah—Neenah Paper Co. let contract 2-story, 75x105-ft. storage building to R. MEYERS & SONS, 52 State St., Oshkosh.

Wis., Waukesha—Waukesha Pure Food Co. let contract masonry for 4-story, 40x140-ft. factory to PAUL RIESEN'S SONS, 1018 Humboldt Ave., Milwaukee. About $50,000. Noted June 22.

Iowa, Council Bluffs—Hynes Elevator Co., Omaha, let contract 750,000-bu. elevator to STEVENS ENGINEERING CO., Chicago. About $500,000.

Minn., Detroit—Gagnon Shoe Co., Webster, Wis., let contract 2-story factory at Detroit to A. W. RANDOLPH, Detroit. About $15,000.

N. D., Fargo—Smith & Runner let contract 2-story, 50x140-ft. warehouse to T. F. POWERS. Noted Aug. 10.

Mont., Laurel—Laurel Milling Co. let contract elevator to GLOBE CONSTRUCTION CO., Lewiston. About $10,000.

Mo., Kansas City—Kansas City Stock Yards Co. will improve yards by day labor. About $1,500,000. C. E. Smith, St. Louis, Engr.

Mo., Kansas City—H. D. Lee Mercantile Co. let contract 8-story, 138x160-ft. factory to GRAY CONSTRUCTION CO., 400 Orear-Leslie Bldg. About $250,000. Noted May 25.

Mo., Kansas City—Midland Milling Co. let contract flour mill, power house and grain elevator to LEHRACK CONTRACTING AND ENGINEERING CO., 725 Gloyd Bldg., Kansas City. About $100,000.

Mo., St. Louis—Anheuser-Busch Brewing Association let contract 5-story plant, Broadway, 7th, Pestalozzi and Arsenal St. to GILSONITE CONSTRUCTION CO., Wainwright Bldg. About $2,500,000.

Tex., Houston—Missouri, Kansas & Texas Ry. let contract warehouse to AMERICAN CONSTRUCTION CO., Houston. About $50,000. Noted May 25.

Okla., Okmulgee—Fullerton-Stuart Lumber Co. let contract 2-story, 150x200-ft. warehouse to D. C. SMOYER, Okmulgee.

Wash., Seattle—Kelly-Springfield Co. let contract 3-story, 120x120-ft. garage, 11th Ave. and Pine St., to WARRACK CONSTRUCTION CO., Lyon Bldg. About $60,000.

Ore., Portland—Portland Union Stock Yards let contract 3-story, 225x225-ft. building to F. J. LEONARD, Lewis Bldg. About $150 000.

Calif., Berkeley—Pacific Guano and Fertilizer Co. let contract addition on 2nd St. to FRANK & HENRY JEPSEN, $10,105.

N. S., Halifax—French Cable Co. let contract cable buildings on North Dartmouth Shore to STANDARD CONSTRUCTION CO., Halifax. About $70,000.

Ont., Brockville—Canadian Briscoe Motor Car Co. let contract addition to T. J. DAVIDSON.

Ont., Toronto—Dept. Pub. Wks. let contract warehouse on Front St. to G. A. FULLER CO., 45 St. Alexander St., Montreal, Que. About $500,000. Noted July 6.

Ont., Toronto—W. Wrigley Co., Jr., Carlow Ave., Toronto, let contract factory to H. C. CHRISTMAN CO., Hamilton. About $250,000.

Alta., Didsbury—Albert Co-operative Elevator Co., 316 Lougheed Bldg., Calgary, let contract elevators at Didsbury to W. McDONALD.

FEDERAL GOVERNMENT WORK

Proposed Work

Mass., Boston—Dredging—Bureau of Yards and Docks, Navy Dept., Washington, D. C., receiving bids Sept. 9, for dredging about 10,000 yd. at U. S. Navy Yard, Boston. Noted Aug. 17.

Mass., Woods Hole—Dredging—Lighthouse Inspector, Boston, receiving bids Aug. 29 for dredging channel and basin in Little Woods Hole Harbor.

N. Y., Tompkinsville—Steel Buoys—Light House Inspector, Tompkinsville, receiving bids Sept. 1, steel buoys, type L.

Penn., Philadelphia—Mail Handling Equipment—Treasury Dept., Office Superv. Arch., Washington, D. C., receiving bids Sept. 8 for mail handling equipment in U. S. post offices at Philadelphia. J. A. Wetmore, Acting Superv. Arch. (See Adv.)

Penn., Philadelphia—Steel, Etc.—U. S. Marine Corps, Quartermaster's Dept., Depot of Supplies, 1100 South Broad St., Philadelphia, receiving bids Aug. 25.

Md., Baltimore—Riprap—Light House Inspector, Baltimore, receiving bids Aug. 29, Timble Shoal Light Station, Va.

D. C., Washington—Building—Bids received Aug. 30 at office of Quartermaster, Walter Reed General Hospital, Tacoma Park, for improving general hospital and nurses home.

D. C., Washington—Power Plant—Bureau of Yards and Docks, Navy Dept., Washington, D. C., receiving bids Sept. 30 for power plant at naval torpedo station, Puget Sound, Wash.

D. C., Washington—Refuse Destructor — Dept. Interior receiving bids Sept. 20, Freedmens Hospital.

Ill., Chicago—Pier Construction, Dredging, Etc.—Bids received Sept. 14 at U. S. Engineer Office, 508 Federal Bldg., Chicago, for dredging, etc., at Chicago Harbor. (See Adv.)

Mont., St. Ignatius—Canals—U. S. Reclamation, St. Ignatius, receiving bids Sept. 20 for canals and structures on Flathead Project.

Colo., Grand Junction — Excavation — United States Reclamation Service, Grand Junction, receiving bids Sept. 14 for 142,700 yd. excavation.

Colo., Montrose—Canal Work—United States Reclamation Service, Montrose, receiving bids Sept. 15 for Ironstone Canal extension, California Mesa Lateral No. 3 and Buttermilk Lateral, Uncompahgre Valley Project, in vicinity of Delta and Olathe. (See Adv. Aug. 17 issue.)

Calif., Willows—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Oct. 2 for U. S. post office at Willows.

Panama—Miscellaneous Supplies—General Purchasing Officer, Panama Canal, Washington, D. C. receiving bids Aug. 28, Circular 1074.

Panama—Miscellaneous Supplies—General Purchasing Officer, Panama Canal, Washington, D. C., receiving bids Sept. 6, Circular 1073.

Bids In and Contracts Awarded

N. Y., Buffalo—Dredging—Low bids received Aug. 15 for dredging and rock excavation at Dunkirk Harbor from O. E. Dunbar, Detroit, $50,258; Great Lakes Dredge and Dock Co., Morgan Bldg., Buffalo, $55,442; Eugene Breymann, Boston, $91,242. Noted July 20.

D. C., Washington—Telephone System—Superv. Arch., Treasury Dept., Washington, received bids for combination fire alarm watchman's clock and telephone system in Interior Dept. from W. G. Cornell Co., Washington, $12,890; W. D. Perry Electric Co., New York, $15,900; Carroll Electric Co., Washington, $12,943.

D. C., Washington—Power Plant—Contract test borings on site of power plant let to W. G. STEARNS, 55 Myrtle Ave., Jamaica, N. Y. Noted Feb. 10.

Federal Government Work (Continued)

La., New Orleans—Custom House—Bids received Aug. 2 for remodeling custom house rejected. Noted Aug. 10.

La., New Orleans—Stone—Contract stone for South and Southwest Passes, Mississippi River, let to L. F. ALEXANDER, New Orleans, $29,290. Noted June 8.

La., New Orleans—Wharf, Etc.—Lighthouse Inspector, 8th Dist., received bids July 25 for wharf, walks and foundation under privies at Southwest Pass Light Station from L. F. Alexander, New Orleans, $6,245; Peter Eskald, Biloxi, Miss., $6,750. Noted July 6.

La., New Orleans—Willows—Contract willows, about 20,000 cords, for South and Southwest Passes, Mississippi River, let to R. M. MURPHY CO., INC., New Orleans, $30,400. Noted June 8.

Ohio, Newark—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., received low bids Aug. 16, (a) limestone, (b) sandstone, from T. W. Cissell, Wooster, (a) $101,400, (b) $110,000; C. McCall Co., Philadelphia, (a) $104,480, (b) $111,180; R. S. Moore, Lafayette, Ind., (a) $109,657, (b) $116,429. Noted July 13.

Ore., Portland—Post Office—Contract let to GRANT FEE, 2440 16th St., San Francisco, Calif., $762,200. Noted Aug. 17.

Calif., San Diego—Dike—U. S. Engineer let contract to H. G. FENTON, $7,140.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., New York—(Brooklyn)—Drainage—Bd. Estimate appropriated $93,000 for improving Dyker Beach by eliminating marshes.

S. C., York—Drainage—Turkey Creek Drainage Dist. receiving bids Sept. 4 for 26 mi. ditches, 86,000 cu.yd. excavation. W. D. Alexander, 412 North Graham St., Charlotte, N. C., Engr. Noted June 22 under Greenwood, S. C.

Ohio, Van Wert—Ditch—Van Wert County receiving bids Sept. 2 for $21,000 bonds. W. Klein, Van Wert, County Audr.

Ind., Tipton—Ditch—Tipton County sold $7,170 bonds for Durham Ditch in Jefferson Township.

Ill., Beardstown—(Official)—Drainage—R. W. Hunt & Co., 2200 Insurance Exchange Bldg., Chicago, receiving bids Sept. 5 for drainage work for South Beardstown Drainage and Levee Dist. of Cass County. (See adv. Aug. 17 issue.)

Iowa, Clinton—Ditches—Clinton County receiving bids Aug. 31 for ditches in Drainage Dist. No. 17. F. Lohberg, Clinton, County Audr.

Iowa, Logan—Drainage—J. M. Alberttson, County Audr., receiving bids Sept. 5 for Upper Willow Creek, Powley, Upper Boyer, Fischer and Mogger Drainage Projects. About $100,000. Noted Aug. 3.

Iowa, Sioux City—(Official)—Ditch—Woodbury County receiving bids Sept. 18 for enlarging Farmers Ditch, Drainage Dist. No. 1. C. Moriarty, U. B. Bldg., Engr. E. E. Mosmer, Sioux City, County Audr. Noted June 1.

Minn., Crookston—Ditches—Polk County making plans for 11 ditches. G. J. Welte, Crookston, County Audr.

Minn., Ortonville—Ditch—Big Stone County receiving bids Sept. 1 for Ditch No. 12. A. V. Randall, Ortonville, County Audr. Noted Aug. 3.

Minn., Ortonville—Ditch—Big Stone County receiving bids Sept. 1 for Ditch No. 14. A. V. Randall, Ortonville, County Audr.

Minn., Shakopee—Ditch—Scott County receiving bids Sept. 4 for Ditch No. 5. A. J. Mayer, Shakopee, County Audr.

Minn., Shakopee—Ditch—Scott County receiving bids Sept. 4 for Ditch No. 6. A. J. Mayer, Shakopee, County Audr. Noted Apr. 27.

Neb., Blair—Ditch—Bd. County Comrs. receiving bids Sept. 5 for De Soto Ditch Improvement, 25,000 cu yd. O. T. Anderson, Blair, County Clk.

N. D., Grand Forks—Ditch—Grand Forks County making plans. H. Anderson & Grand Forks, County Audr.

Ark., Pine Bluff—Drainage—Miller Engineering Co., Little Rock, submitted plans for drainage canal. About $150,000. Noted Mar. 9.

Ark., Walnut Ridge—Canal—Comrs. Lower Running Drainage Dist. receiving bids Sept. 4 for canal. About $25,000. F. F. Sloan, Chn.

Idaho, Caldwell—(Official)—Irrigation—Pioneer Irrigation Dist. receiving bids about Oct. 1 for improving Phyllis Canal. About $60,000. G. C. McGee, City Engr. Noted July 27.

Ore., Ashland—Ditch—Rogue River Land Co. plans ditch, 14 mi., to connect Fish Lake with Four Mile Lake.

Calif., Amedee—Election held Sept. 7 to vote on formation of Honey Lake Valley Irrigation District, 30,000 acres. About $956,000. W. Wales, Woodland, Engr.

Bids In and Contracts Awarded

Mass., Cotuit—Dredging—Harbor and Land Com., Boston, rejected bids received Aug. 1 for dredging Cotiut Harbor and Popponesset Bay.

N. Y., Buffalo—Dredging—Contract dredging Buffalo River let to GREAT LAKES DREDGING CO., Morgan Bldg., $32,400. Noted Apr. 20.

N. Y., New York—(Manhattan)—Dredging—Bids received Aug. 16 for dredging West 209th St., Harlem River, Contract No. 1524, (a) Class 1, 34,000 cu.yd., (b) Class 2, 15,000 cu.yd., from Morris & Cummings Dredging Co., 17 State St., (a) 84c. per cu.yd., (b) 84c.; Seeley Engineering Co., (a) 90c., (b) 90c. Noted Aug. 10.

Ga., Monroe—Drainage—Cornish Creek Drainage Dist. let contract drainage system to THOMPSON & MOSELEY, Greensboro, N. C., $24,080. Noted Mar. 2.

Ohio, Lancaster—Dredging—Bids received Aug. 10 for dredging Rush Creek in Perry and Fairfield Counties rejected. Noted July 20.

Iowa, Algona—Ditch—Contract Ditch No. 137 let to B. E. NORTON, Algona, $7,997.

Minn., Fergus Falls—Ditch—Ottertail County let contract County Ditch No. 56 to DENNISTON TILE WORKS. About $17,995.

Minn., Long Prairie—Ditch—Contract Ditch No. 34 let to SEELEY ADAMS, $7,547.

Minn., Minneapolis—Dredging—Park Bd. let contract dredging beach, Glenwood Park, to HYDRAULIC ENGINEERING AND DREDGING CO. Noted July 27.

Minn., Morris—Ditch—Stevens County let contract Ditch No. 22 to C. A. POGUE & CO., Grand Rapids, $9,560. Noted July 13.

Neb., Curtis—Drainage—No bids received Aug. 1 by Drainage Dist. No. 1, Frontier County, for 50,000 cu.yd. excavation. Towl Engineering Co., City National Bank Bldg., Omaha, Engr. Noted Aug. 10.

Wash., Seattle—Drainage—Drainage Dist. No. 4, 715 New York Blk., received lowest bid for draining 100 acres in Issaquah Valley from Chamberlain Construction Co., Globe Blk., $10,364.

Calif., San Jose—Drainage—Contract drainage system let to H. L. HAEHL ENGINEERING CO., Oakland, $19,630.

MISCELLANEOUS

Proposed Work

N. H., Milford—Park Improvements—City making plans. F. A. Robinson, 101 Tremont St., Boston, Mass., Landscape Arch.

Mass., Onset—Wharf—City plans. About $10,000.

Conn., Bridgeport—Comfort Station—Bd. Park Comrs. receiving bids Aug. 26, Washington Park. E. G. Southey, 983 Broad St., Arch.

N. Y., New York—(Bronx)—Pier—B. G. Lewis, Comr. of Correction, Municipal Bldg., receiving bids Aug. 25 for repairing pier at foot of Fordham Ave., City Island.

N. Y., New York—(Manhattan)—(Official)—Cables—Fire Comr., Municipal Bldg., receiving bids Aug. 31 for underground lead-covered distribution cables from 82nd St. to Ft. George Ave. C. H. Fay, Deputy and Act. Comr.

N. J., Atlantic City—Bulkhead—City made plans, Inlet Park. About $15,000. J. W. Hackney, City Hall, Engr. Noted Mar. 9.

N. J., Atlantic City—Fire House—City making plans, 2-story, 32x65-ft. Stout & Rabenack, Guarantee Trust Bldg., Philadelphia, Penn. Arch.

N. J., Hoboken—Piers—Hoboken Land and Improvement Co., Newark St., plans 2 piers, 600 ft. long and 120 ft. wide.

Penn., Ambler—Fire House—Wissahickon Fire Co. making plans. 2-story. About $10,000. W. K. Phillips, 430 Walnut St., Philadelphia, Arch.

Penn., Coatesville—(Official)—Cast-Iron Pipe—City receiving bids Aug. 28. E. E. Stern, City Clk. J. W. Harry, City Engr. (See adv. Aug. 17 issue.)

Penn., Newtown Square—Fire Engine House—City made plans, 1- and 2-story. N. B. Okie, care of Durhring, Okie & Zeigler, Bailey Bldg., Philadelphia, Arch.

Penn., Philadelphia—Recreation Building and Park Improvements—Bd. Recreation receiving bids Aug. 31. P. H. Johnson, Land Title Bldg., Arch. Noted Aug. 10.

Penn., Trevorton—Fire Engine House—Treverton Fire Co. making plans. About $6,000. F. R. Schweiyzer, Arch.

W. Va., Huntington—Subway—Baltimore & Ohio Railroad Co. and Chesapeake & Ohio Ry. interested in subway in 5th Ave. About $25,000. F. L. Stuart, Baltimore, Md., Ch. Engr. Baltimore & Ohio Railroad Co.

Miss., Bay St. Louis—(Official)—Seawall, Etc.—Seawall Comrs. Dist. No. 2 receiving bids Oct. 1. G. R. Rea, Secy. D. N. Harris, Mobile, Ala., Engr. Noted July 20.

Ohio, Alliance—Park and Playgrounds—City voted $100,000 bonds. W. Shidler, City Clk. Noted July 6.

Ohio, Celina—Park Improvements—City sold $10,000 bonds.

Ohio, Cleveland—Elimination Grade Crossing—New York, Chicago & St. Louis R.R. plans, Ivanhoe Rd. Cost railroad $91,000, Cleveland and East Cleveland, $16,000. A. J. Himes, Engr. Grade Crossing Elimination. R. Hoffman, City Engr.

Ohio, Cleveland—Stadium—City receiving bids Sept. 1, concrete, Brookside Park. About $20,000. F. H. Betz, City Arch. R. Hoffman, City Engr. Noted Aug. 10.

Ohio, Cleveland—Swimming Pool—City making preliminary plans, Brookside Park. F. H. Betz, City Hall, Arch.

Ohio, Dayton—Dam—City Comrs. plan, Island Park.

Ohio, Russellville—Undergrade Crossing—City soon votes on $10,000 bonds. L. P. Rauselman, Clk.

Ohio, Youngstown—Comfort Station—City pla About $6,400. F. Lillie, City Engr.

Mich., Grand Rapids—Tunnel—F. A. Sto granted permission for tunnel or subway in John Watson property on Bridge St. Abo $6,000.

Ill., Chicago—Fire Engine House—City mak plans, 2-story. About $40,000. C. W. Kal Arch. W. R. Morehouse, Comr. Pub. Wks.

Ill., Chicago—Tunnel—Chicago Union Stati Co. receiving bids Aug. 30 for tunnel in Ada and Jackson St. T. Rodd, Pittsburgh, Ch. Eng

Ill., Evanston—Seawall—I. C. Brower, Com Pub. Wks., receiving bids Aug. 31 for seawa along shore Lake Michigan.

Ill., Oak Park—Fire Station—Village plans, story, Augusta and Lombard St. About $6,00 C. H. Hill, Village Pres.

Iowa, Muscatine—(Official)—Levee—Joint Bd of Superv. of Muscatine and Louisa Counties soon receives bids for levee along Mississippi River for Muscatine Island Levee Dist. Elliott & Harman Engineering Co., 144 Fredonia Ave., Peoria, Ill. Noted Aug. 3.

Iowa, Onawa—Straightening River—County Comrs. voted $100,000 to straighten Soldier River to abate floods. Noted July 13.

Minn., West Duluth—Coal Dock—Northern Pacific Ry. making plans. About $10,000. W. L. Darling, 1210 Railroad Bldg., St. Paul, Ch. Engr.

Tex., Dallas—Levee Improvements—Five Mile Levee Improvement Dist. plans. About $90,000 O. W. Finley, Ennis, interested.

Tex., Port Arthur—Wharf—Gulf Refining Co. plans 1,000-ft. addition.

Wash., Seattle—Pier—Pacific Construction Co., Railroad Ave. and Washington St., soon lets contract for rebuilding Pier No. 11, Wall St. About $50,000.

Ore., Portland—Retaining Wall—Dept. Pub. Wks. make plans, Vista Ave. and Montgomery Dr.

Calif., Anaheim—Dike—O. E. Stewart, City Engr., interested in formation of protection district to build dike. About $100,000.

Calif., Los Angeles—Chimney—Bd. Supvre. receiving bids Aug. 28 for circular rein.-con. chimney at County Hospital, Mission Rd. and Sichel St. J. Schulz, Wright & Callender Bldg., Consult. Engr.

Calif., Perris—Flood Protection—Perris Valley Water Conservation and Protective Association plans conservation of flood waters.

Calif., San Jacinto—Levee Improvements—Election soon to vote on bonds, San Jacinto River. E. Dunham, Member San Jacinto Levee Bd.

Calif., Santa Ana—Dikes—Newbert Protection Dist. plans to repair dikes along Santa Ana River. About $40,000.

Calif., Santa Ana—Levee—West Orange Protective Dist. plans levee, 7 mi., on east bank of Santa Ana River. Address F. Eckgoff, Dir.

Que., Montreal—Auto-Flushers—P. E. Mercier, Ch. Engr., recommended purchasing 10 auto-flushers to replace street sprinklers.

Man., Grand Rapids—Docks, Etc.—Manitoba Power, Pulp and Paper Co. making plans for docks, dam and mills. About $2,000,000.

Bids In and Contracts Awarded

Mass., Chicopee—Retaining Wall—Harbor and Land Com. received bids from D. F. Crowley, East Milton, $10 30; C. M. Leach, Boston, $10.33; D. O'Connell & Sons, Holyoke, $10.75. Noted Aug. 10.

Mass., Scituate—Seawall—Harbor and Land Comr. let contract to D. F. CROWLEY, Adams St., Milton.

R. I., Warwick—Fire Station—Conimicut Volunteer Fire Co. let contract to C. I. BIGNEY CONSTRUCTION CO., INC., 898 Westminister St., Providence. About $5,000.

Conn., Norwich—Bulkhead and Dredging—American Straw Board Co. let contract to C. A. SIBLEY, New Haven. Noted July 20.

N. Y., Hornell—Retaining Wall—City will build by day labor. About $13,000. F. Hurd, City Clk. Noted July 13.

N. Y., New York—(Manhattan)—Pier Shed—Lehigh Valley Railroad Co. let contract masonry Pier Shed No. 44 to J. JEWKES & SONS, 676 Montgomery St., Jersey City, N. J.

N. Y., Rochester—Locker Building and Grandstand—University of Rochester let contract, 1-story, 40x160-ft., to G. C. ROSSELL, Triangle Bldg.

N. J., Atlantic City—Bulkhead, Pier and Slips—City let contract to DYKE & SMITH. About $30,000. J. W. Hackney, City Hall, Engr.

Penn., Franklin—Retaining Wall—City let contract to F. HIPF CO., 171 Pine St., Johnstown.

Penn., Freeport—Track Elevation and Elimination Grade Crossing—Pennsylvania R.R. let contract to McMENAMAIN & SIMS, Commercial Trust Bldg., Philadelphia. About $1,000,000. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Penn., Philadelphia—Fire Station—Dept. Pub. Safety received low bids Aug. 17 for fire station No. 35, 4214 Ridge Ave., from E. F. Fonder, Land Title Bldg., $23,400; Standard Construction Co., Drexel Bldg., $24,590; J. Connors, 1317 Arch St., $25,388. Noted July 27.

Miss., Gulfport—Breakwater—County Superv received lowest bid from Jancey Bros., Browne.

Miscellaneous (Continued)

Crane & Co., Detroit, Mich. J. F. Galloway, Gulfport, County Engr. Noted Aug. 3.

Ohio, Sandusky—Subway—New York Central R.R. and Lake Erie & Western R.R. let contract subway at Camp St. to ROBERT GRACE CONTRACTING CO., 514 Smithfield St., Pittsburgh. Noted June 8.

Mich., Houghton—Dock—M. Van Orden Co. let contract to J. J. MICHAELS, Houghton, and J. RICHARDS, Dollar Bay.

Ill., Bloomington—Subway—Chicago & Alton R.R. let contract to I. D. LAIN, Bloomington. About $26,000. Noted Jan. 6.

Ill., Rochelle—Coal Chute—Chicago, Burlington & Quincy Railroad Co. let contract to OGLE CONSTRUCTION CO., 332 South Michigan Ave., Chicago.

Wis., Winnebago—(Official)—Sprinkler System—State Bd. Control, Madison, received lowest bid, North Hospital for Insane, from Allis Fire Extinguisher Co., Milwaukee. Noted July 27.

Iowa, North McGregor—Terminal Improvements—Chicago, Milwaukee & St. Paul Ry. let contract terminal grading improvements to MORRIS, SHEPARD & DOUGHERTY, St. Paul.

Tex., Port Arthur—Channel—Contract let to SOUTHERN DREDGING CO., American National Insurance Bldg., Galveston, for extending channel.

Wash., Tacoma—Retaining Wall—Oregon-Washington R.R. and Navigation Co. let contract retaining wall to HURLET MASON CO., Worcester Bldg., Portland, Ore. About $60,000.

N. S., Dartmouth—Wharf and Office Building—Campagnie Francais des Telagraphique, Montreal, Que., let contract to STANDARD CONSTRUCTION CO., Metropole Bldg. About $75,000. Noted Aug. 10.

N. B., St. John—Cribwork and Backfilling—Contract cribwork and backfilling at Pier No. 16 let to MARITIME DREDGING CO.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

N. H., Exeter—Gymnasium and Swimming Pool—Phillips Exeter Academy making plans, 1-story, 80x100-ft. About $100,000. F. A. Colby, 15 East 40th St., New York, Arch.

Mass., Chicopee—City Hall—City plans addition on Front St. About $70,000.

Mass., Chicopee—High School—City making plans, 3-story, 187x200-285-ft. About $60,000. G. E. Haynes, 184 North St., Pittsfield, Arch.

Mass., Lawrence—High School—Board Education plans addition, Haverhill and Oak St.

Mass., Shirley—State making plans for building for Shirley Industrial School. About $76,700. Densmore & LeClear, 88 Broad St., Boston, Arch. Noted May 4.

Conn., Bridgeport—High School—Board Education receiving bids Aug. 28, Linwood Ave. L. Asheim, 211 State St., Arch.

Conn., Bridgeport—Bridgeport Christian Union plans 4-story building. Briggs & Caldwell, Arch.

Conn., Bristol—School—City making plans, 2-story, 35x129-ft. addition. Wilson Potter, 1 Union Sq., New York, Arch.

N. Y., Batavia—High School—City votes Sept. 16 on $200,000 bonds. Noted Mar. 23.

N. Y., Binghamton—Church—Lithuanian Society of Binghamton making plans, 1-story. About $40,000. T. I. Lacey & Sob, 1110 Press Bldg., Arch.

N. Y., Endicott—Hospital—D. R. D. Mead interested. About $70,000.

N. Y., Ithaca—(Official)—New York State College of Agriculture at Cornell University receiving bids Aug. 31 for buildings. E. L. Williams, Cornell University, Comptroller. L. F. Pilcher, Albany, State Arch. (See adv. Aug. 17 issue.)

N. Y., Johnson City—Church—First Baptist Church plans, brick and stone, Main St. and Johnson Ave. About $50,000.

N. Y., Long Beach—Hotel—Pierre & Cantone plans, 3-story, 170x200-ft. addition. Kirby & Pettit, 103 Park Ave., New York, Arch.

N. Y., New Hampton—City made plans for 4-story receiving building. About $197,700. C. B. Meyers, 1 Union Sq., New York, Arch. B. G. Lewis, Municipal Bldg., New York, Comr. Dept. of Correction.

N. Y., New York—(Brooklyn)—Hospital—Industrial Home Association, 153 South 3rd St., making plans, 4-story, 40x88-ft., brick. About $75,000. E. T. Meisinger, 394 Graham Ave., Arch.

N. Y., New York—(Brooklyn)—Theater—Freedman Bros., 1333 Broadway, receiving bids, 2-story, 125x140 ft., brick. About $75,000. M. J. Harrison, 63 Park Row, Arch.

N. Y., New York—(Manhattan)—Office—Anderson Galleries made preliminary plans, 22-story, 50x91-ft. brick and limestone at Madison Ave. and 40th St. About $350,000. Starrett & Van Vleck, 8 West 40th St., Arch.

N. Y., Utica—Hotel—Yates Hotel made plans, 3-story. L. Kinne, Mayro Bldg., Arch. C. Y. Fuller, 13 Whitesboro St., Proprietor.

N. Y., Syracuse—School—Board Education making plans, 2-story. About $250,000. Sacket & Park, 34 Syracuse Savings Bank Bldg., Arch.

N. J., Camden—Theater—Broadway Realty Co. making plans, 1-story, 53x140-ft. About $75,000. Custer && Seltzer, 3rd and Market St., Arch.

N. J., Clifton—School—Bd. Education receiving bids Sept. 12 for addition to School No. 7. About $65,000. W. T. Fanning, Colt Bldg., Paterson, Arch. Noted Mar. 16.

N. J., Lyndhurst—High School—Board Education making plans. About $60,000. E. Sibley, Edgewood Lane and Bluff Rd., Palisade, Arch.

N. J., New Brunswick—Y. M. C. A. Association making plans for 4-story building. About $125,000. Shattuck & Hussey, 19 South La Salle St., Chicago, Arch.

N. J., Park Ridge—School—Bd. Education plans, brick, Main St.

Penn., Birmingham—Birmingham School for Girls, Inc., made plans for building. J. Millard, Hutchinson Bldg., Altoona, Arch.

Penn., Erie—School—Bd. Education receiving bids about Oct. 1 for 2-story Lincoln Grade School. About $200,000. W. B. Ittner, St. Louis, Mo., Arch.

Penn., Johnstown—High School—Board Education making plans, 2-story, 75x200-ft. About $200,000. H. Hornbostel, 63 Williams St., New York, Arch. Noted Mar. 2.

Penn., New Castle—Bank and Office—Safe Deposit and Trust Co. plans, 6-story. About $200,000. H. M. Wirsing, South Jefferson St., Arch.

Penn., Philadelphia—Hotel—Oliver R. Parry, Arch., 1631 Chestnut St., made plans, 12-story, 85x145-ft. About $1,000,000.

Penn., Pittsburgh—Carnegie Institute of Technology receiving bids Sept. 16 for addition to school of applied science. About $125,000. H. Hornbostel, Arch.

Penn., Pittsburgh—Hospital—Passavant Hospital, Reed and Miller St., making plans for addition. About $100,000. E. Stotz, Arch.

Penn., Swissvale—High School—Board Education votes Nov. 2 on $180,000 bonds, 3-story, 170x190-ft. C. H. Lloyd, Telegram Bldg., Harrisburg, Arch. Noted May 11.

Penn., Turtle Creek—High School—Board Education receiving bids about Sept. 1, 2-story. About $225,000. G. H. Schwan, Peoples Bank Bldg., Pittsburgh, Arch. Noted Apr. 6.

Penn., West Chester—High and Grade School—City making plans. Paul A. Davis, 1713 Sansom St., Philadelphia, Arch.

Penn., York—Church—First United Brethren Church making plans, 2-story, 80x94-ft. About $40,000. Billmeyer & Gemmill, Rosenmiller Bldg., Arch.

Penn., Zelienople—Home—Pittsburgh Synod Lutherian Church made plans, 3-story, 50x100-ft. addition. About $50,000. E. Stotz, Monongahela Bank Bldg., Pittsburgh, Arch.

Md., Baltimore—Theater—City plans, 1-story. About $50,000. O. B. Wight, 1123 Munsey Bldg., Arch.

Md., Hagerstown—Hotel—Clarence Keedy making plans, 5-story, 40x200-ft. About $75,000. H. K. Yessler, Hamilton Row, Arch.

Va., Bristol—Kings College plans buildings. About $250,000. C. B. Kearfoot, Arch.

Ga., Macon—Auditorium and Hospital—City receiving bids Sept. 12 for purchase of $200,000 bonds. D. S. Jones, Clk. Noted July 6.

Fla., Jacksonville—Jacksonville Terminal Co. made plans for union depot. About $600 000. K. M. Murchison, 101 Park Ave., New York, Arch. Noted Mar. 23.

Ala., Decatur—Temple—Colored Grand Lodge of Alabama, Knights of Pythias voted $150,000.

Miss., Meridan-School—School Board made plans. About $50,00. P. J. Krouse, Engr.

La., New Orleans—Hospital—Dibert Memorial Tuberculosis Hospital plans. About $700 000.

Tenn., Nashville—Theater—Crescent Amusement Co. plans, rein.-con. About $100,000. T. Sudekum, Mgr. Marr & Holman, Arch.

Ky., Covington—High School—Board Education receiving bids Sept. 11, 3-story. About $175,000. Weber, Werner & Adkins, 414 Walnut St., Cincinnati, Ohio, Arch. Noted May 25.

Ky., Covington—German Mutual Fire Insurance Co. receiving bids Oct. 24 for 3-story building. About $100,000. Samuel Hannaford & Sons, Cincinnati, Ohio, Arch. Noted Aug. 17.

Ky., Franklin—Hotel—Franklin Hotel Co. plans. About $50,00. J. H. Crocker, Pres.

Ohio, Dayton—Club House—Dayton Engineers Club receiving bids about Sept. 15, 2-story. About $100,000. Schenck & Williams, 591 Arcade Bldg., Arch. Noted July 27.

Ohio, Defiance—High School—Board Education receiving bids Sept. 1, 3-story. About $200,000. McLaughlin & Huksken, 610 Savings Bldg., Lima, Arch. Noted Aug. 17.

Ohio, Elyria—Bank—Savings Deposit Bank and Trust Co. making plans 1- and 2-story. About $60,000. A. Hopkins, 101 Park Ave., New York, Arch.

Ohio., Kingston—High School—City making plans. About $40,000. F. L. Packard, Columbus, Arch.

Ohio, Lynchburg—Auditorium—Village Council plans.

Ohio, Newark—Church—Fifth Avenue Baptist Church making plans, 1-story. About $65,000. E. E. Pruitt, 7th floor, Hartman Bldg., Columbus, Arch. Noted Aug. 10.

Ohio, Newark—School—Parish of St. Francis De Sales making plans. About $90,000. Howard & Merriam, Columbus, Arch.

Ohio, New Boston—(Portsmouth post office)—Grade School—Board Education plans, 2-story. About $65,000.

Ohio, New Lebanon—Grade and High School—Board Education plans, 2-story. About $50,000.

Ohio, Wellington—School—City sold $55,000 bonds.

Ohio, Weston—School—Board Education receiving bids about Sept. 15, 2-story, 45x58 ft. About $45,000. S. P. Stewart & Son, Bowling Green, Arch. Noted June 8.

Ohio, Xenia—Gymnasium—Wilberforce University making plans, 1-story, 90x134-ft. About $40,000. F. L. Packard, 1212 Hayden Bldg., 16 East Broad St., Columbus, Arch.

Ohio, Youngstown—Hotel—Willis Hotel Co. made plans, 1-story. About $300,000. W. C. Owen & Co., Leader News Bldg., Arch.

Ind., Boonville—High School—Board Education making plans, 1-story. About $40,000. C. Shopbell & Co., 707 Furniture Exchange Bldg., Evansville, Arch.

Ind., Crawfordsville—Armory and Gymnasium—Wabash College plans, 1- and 3-story, 100x200-ft. and 40x130-ft. H. Foltz, 1456 Lemcke Bldg., Indianapolis, Arch.

Ind., Kokomo—Temple—Kokomo Masonic Lodge plans, 2-story. About $75,000. E. E. Dunlap, 909 State Life Bldg., Indianapolis, Arch.

Ind., Mishawaka—Bank and Office—Mishawaka Trust and Savings Co. making plans, 5-story. About $120,000. Austin & Shambleau, 731 J. M. S. Bldg., South Bend, Arch. Noted Feb. 10.

Ind., North Terrat Haute—High and Grade School—City making plans, 2-story. About $40,000. D. B. Shrouds, 511 Tribune Bldg., Terra Haute, Arch.

Ind., Richmond—Penn College to replace buildings destroyed by fire. About $400,000.

Ind., South Bend—Hotel—Van Valkenburg Bros., Danville, plans. About $250,000.

Ind., Terre Haute—School—Indiana State Norman School made plans. About $100,000. Robert G. Gillum, Prof. Noted June 15.

Mich., Detroit—Temple—Colonial Lodge making plans, 2-story, 70x120-ft. About $60,000. G. W. Graves, 56 Rowland Bldg., Arch.

Mich., Highland Park—School—Board Education making plans. W. D. Butterfield, 1113 David Whitney Bldg., Detroit, Arch.

Mich., St. Clair Heights—Hotel—J. Vanderbeck making plans, 2-story, 38x120-ft. About $80,000. P. Rosselle, 1487 Mack Ave., Detroit, Mich.

Ill., Aurora—Y. M. C. A. plans addition to building. About $65,000.

Ill., Buda—School—City voted $40,000 bonds.

Ill., Chicago—Store and Hotel—G. Mavrakos and P. Briskas, 68 West Grand Ave., plans, 4-story, 40x80-ft., North Clark St. and West Grand Ave.

Ill., Chicago—Theater and Store—W. Pagels, Arch., 19 South La Salle St., making plans, 3-story. About $75,000.

Ill., Eureka—Science Hall—Eureka College making plans, 3-story. About $40,000. A. L. Pillsburg, Peoples Bank Bldg., Bloomington, Arch.

Ill., Maywood—Temple—Maywood Lodge No. 869 making plans, 3-story, 50x100-ft. About $40,000. E. E. Roberts, 105 North Clark St., Chicago, Arch.

Wis., Beloit—School—Dist. No. 2 making plans. About $50,000. M. R. Rosman, 878 44th St., Milwaukee, Arch.

Wis., Berlin—School—School Bd. receiving bids Sept. 6. About $100,000. Parkinson & Dockendorff, La Crosse, Arch. Noted July 27.

Wis., Waukesha—Sanitarium—Pen Bryn Sanitarium Co. making plans, 2-story. About $60,000. R. A. Messmer & Bros., 1004 Majestic Bldg., Milwaukee, Arch.

Iowa, Irwin—School—Board Education receiving bids Sept. 9. About $40,000. J. M. Edwards, Pres. Bd. Dir. Noted Aug. 10.

Iowa, Mason City—School—Independent School Dist. receiving bids Sept. 18, for high school and domestic science building. About $250,000. J. H. Felt & Co., 800 Grand Ave. Temple, Kansas City, Mo., Arch. Noted July 27.

Iowa, Randolph—School—Board Education made plans, 2-story, 69x106-ft. About $42,000. C. M. Nye & Robinson, 782 Brandeis Bldg., Omaha, Neb., Arch.

Iowa, Soda Springs—Hotel—Soda Springs Hotel and Sanitarium Co., recently incorporated plans. About $100,000. F. R. Paradise, Pocatello, Idaho, interested.

Iowa, Titonka—School—Board Education plans, 2-story. About $40,000. C. Reibsamen, Pres. Bd. Education.

Minn., Annandale—School—G. J. Hoffman, Arch., Rochester, made plans, 2-story, 75x144-ft. About $50,000.

Minn., Elbow Lake—Hotel—E. P. Moorhead, Moorhead Inspection Bureau, 1143 Plymouth Bldg., Minneapolis, plans, 3-story.

Minn., Mound—High School—School Dist. No. 85 receiving bids Sept. 14, 3-story. About $60,000. F. E. Halden, 601 Kasota Bldg., Minneapolis, Arch. Noted May 25.

Minn., Northfield—Dormitory—Carlton College receiving bids Sept. 1. About $150,000. Holmes & Flinn, 8 South Dearborn St., Chicago, Arch.

Buildings (Continued)

Minn., Proctor—School—City making plans. About $50,000. V. J. Price, Palladio Bldg., Arch.

Kan., Arkansas City—City Hall—City making plans. About $60,000. M. N. Sinnott, City Clk. W. T. Schmitt, Oklahoma, Okla., Clk. Noted June 29.

Kan., Eldorado—High and Grade Schools—Board Education voted $45,000 bonds. H. T. Brown, Pres. Noted May 4.

Kan., Hiawatha—Courthouse and Jail—Brown County defeated $125,000 bonds. J. E. Mathewson, Hiawatha, County Clk. Noted July 20.

Kan., Smith Center—High School—Board Education receiving bids Sept. 6, 2-story, 70x125-ft. About $45,000. T. W. Williamson, Topeka, Arch. Noted July 13.

Wyo., Basin—Bank—First National Bank soon lets contract.

Mont., Anaconda—Hotel and Store Building—Ben Bank Realty Co. plans. About $75,000 to $100,000.

Mont., Helena—Cedarberg & Van Kirk, Arch., Endicott Bldg., St. Paul made plans for 5-story theater, store and office building. About $200,000.

Ark., Little Rock—Central Supply Co. plans 4-story building. About $90,000. C. C. Rose, Pres.

Tex., Port Arthur—School—Port Arthur School Bd. receiving bids Sept. 5. About $225,000. Noted Jan. 20.

Calif., Culver City—School—City sold $55,000 bonds. Noted May 18.

Calif., Porterville—City Hall and Auditorium—City soon to vote $50,000 bonds.

Calif., San Francisco—State Bd. of Control plans state building. About $1,000,000.

Calif., Taft—City Hall—City made plans. O. L. Clark, Bakersfield, Arch.

Calif., Visalia—Hotel—Johnson Hotel receiving bids Aug. 31. About $135,000. J. S. Johnson, interested. Noted May 11.

Ont., Tweed—High School—High School Bd. receiving bids Aug. 30. O. W. Huyck, Secy. Ellis & Ellis, Maning Chambers, Toronto, Arch.

Bids In and Contracts Awarded

Mass., Bilton—School—City rejected bids. Noted Aug. 17.

Mass., Boston—High School—City let contract, 3-story, 40x131-ft. addition, to J. BOWEN CO., 184 Dudley St., Roxbury. About $75,000.

Mass., Brockton—School—City received lowest bid, 2-story, 35x170-ft. addition, from G. Howard & Sons, 633 Warren St., Brockton, $111,200. Noted July 13.

Mass., Concord—Library—Concord Free Library let contract, 1- and 3-story 100x150-ft. addition to CHARLES LOGUE BUILDING CO., 18 Tremont St., Boston. About $60,000.

Mass., Somerville—Bank—Somerville Trust Co. let contract to J. E. LOCATELLI CO., INC., 46 Cornhill, Boston.

N. Y., Buffalo—School—Dept. of Parks and Bldgs. let contract masonry, 3-story addition to School No. 17 to ECKHAM CONSTRUCTION CO., Mutual Life Bldg. About $65,000. Noted Jan. 13.

N. Y., New York—(Brooklyn)—Schools—Board Education let contract Schools Nos. 43 and 147 to E. RUTZLER, 404 East 49th St.

N. Y., New York—(Brooklyn)—School—Church of St. Charles Borromeo let contract to W. L. & G. H. O'SHEA, 29 Broadway, Manhattan.

N. Y., New York—(Manhattan)—Grolier Club let contract, 5-story, 31x100-ft. to T. O'REILLY & SON, 30 East 42nd St.

N. Y., New York—(Manhattan)—Sunday School and Store—M. E. Church, 2543 Marion Ave., let contract to G. W. FLAGG, 2610 University Ave. About $130,000.

N. Y., New York—(Manhattan)—Club House—Delta Kappa Epsilon Society let contract improving 11-story club house to THOMAS T. HOPPER CO., 280 Madison Ave. About $60,000.

N. Y., New York—(Manhattan)—Museum—Spanish Society of America let contract, 65x125-ft. 155th St. and Broadway, to J. C. UDALL, 29 West 34th St. About $300,000.

N. Y., Pittsford—High School—Bd. Education received low bid for masonry from P. Hauck, Cox Bldg. About $60,000.

N. Y., Poughkeepsie—New York Central & Hudson River Railroad Co. let contract passenger station and express building to WELLS BROS. CO., 29 West 42nd St., New York. About $75,000. Noted Apr. 20.

N. Y., Rochester—Church and Sunday School—Bellevue Avenue M. E. Church let contract to ERION & GILBERT, 344 East Ave. About $50,000.

N. J., Camden—Library—City let contract, 2-story, 65x108-ft. to DOYLE & CO., 1519 Sansom St. About $225,000.

N. J., Hoboken—National Bank of North Hudson let contract building on Summit Ave. to G. H. DECKER. About $46,500.

Penn., Altoona—Lodge and Office—Junior Order of United American Mechanics let contract, 4-story, 50x70-ft., to P. W. FINN, Masonic Bldg. About $40,000.

Penn., Haverford — Service and Administration Building—Haverford Township let contract, 2-story to E. O. LOBB, Llanerch.

Penn., Kutztown—High School—Board Education let contract, 2-story, 75x100-ft., to E. H. WIAND, 32 East 58th St., Pottstown. About $40,000. Noted Aug. 10.

Penn., Narberth—School—Board Education received lowest bid from C. D. Burns, Drexel Bldg., Philadelphia. About $40,000. Noted Aug. 10.

Va., Covington—Bank—National Bank of Covington let contract, 2-story, 40x60-ft., to W. H. PARRISH & CO., Charlottesville. About $40,000. Noted July 13.

Va., Norfolk—Synagogue—Chef Sholem Synagogue let contract, 1-story, 72x106-ft., to BAKER & BRINKLEY, Dickson Bldg. About $85,000. Noted Aug. 10.

W. Va., Richmond—High and Grade School—Board Education let contract, 2-story 136x183-ft., to A. J. FINCHER. About $40,000. Noted Apr. 13.

Ga., Macon—Hospital—Bd. Hospital Comrs. let contract to R. M. WALKER CO., Atlanta. About $80,984. Noted June 8.

Ga., Rock Mart—School—City let contract to KALB & McCAULEY.

Miss., Jackson—Capitol Comrs. let contract for rebuilding State Capitol to JAMES H. BRIGHT CONSTRUCTION AND BUILDING CO., Title Guaranty Bldg., St. Louis, Mo., $42,995. Noted Mar. 9.

Tenn., Harriman—School—Board Education let contract to SOLOMON CONSTRUCTION AND ENGINEERING CO. About $50,000. Noted June 22.

Ohio, Cleveland—School—Sacred Heart of Jesus Church let contract, 2-story 90x123-ft., to A. F WASILLEWSEI, 1441 East 53rd St. About $50,000.

Ohio, Fremont—Hospital and Nursery — Independent Order of Odd Fellows, Springfield, let contract to SIDNEY E. AFTEL, Toledo. About $80,000.

Ohio, Massillon—Nurses Home—Ohio State Bd. of Administration let contract nurses home at Massillon State Hospital to CULLEN & VAUGHN CO., Columbus. About $50,000. Noted July 27.

Ohio, Mt. Vernon—Hospital—City let contract to SIMON SMALL & SON, Mansfield. About $74,672.

Ohio, Wellington—High School—Board Education let contract, 2-story, 50x140-ft. addition to E. CONVERSE, Massillon. About $50,000.

Ind., Evansville—Hotel—Apartment Hotel Co. let contract to C. HANZLER & SON, Evansville.

Ind., Ft. Wayne—Chapel—St. Joe Chapel let contract, 1-story, 40x60-ft., to OSCAR SPRINGER. About $60,000.

Ind., Indianapolis—Hotel—Gill-Buennagel Realty Co. let contract, 5-story, 67x90-ft., to BEDFORD STONE AND CONSTRUCTION CO., Fletcher Trust and Savings Bank Bldg. About $95,000. Noted Aug. 17.

Mich., Detroit—Theater—Colonial Theater Co. let contract, Broadway and Witherall St., to SCHMIDE SISMANCO. About $150,000. Noted Apr. 13.

Mich., Morenci—Bank—Wakefield State Bank let contract to W. M. ACKERMAN.

Ill., Chicago—School, Church and Hall—St. Theodora's Church let contract, masonry, 3-story, 90x114-ft., to F. BURKE, 35 South Dearborn St. About $75,000.

Ill., Moline—Grade School—Board Education let contract, 1-story, 90x125-ft., to P. J. LORENZ, Peoples Bank Bldg. About $40,000. Noted May 11.

Ill., Waukegan—School—City let contract to PETER W. PETERSON. About $42,000. Noted July 20.

Ill., Wood River—High School—Board Education let contract, 2-story, 57x78-ft., to J. I. GEDNEY, Arcade Bldg., East St. Louis. About $50,000.

Wis., Mt. Calvary—Students Hall—St. Lawrence College let contract to HUTTER CONSTRUCTION CO., Fond du Lac. About $50,000. Noted May 25.

Wis., Racine—Church—First Methodist Church let contract, 2-story, to JOHN & SUTHERLAND, Waukegan. About $45,000.

Iowa, Lakeview—School—City let contract to CARL SCHLACHTER & SON. About $40,000. Noted May 25.

Iowa, Monticello—Hospital—John McDonald Estate rejected bids. About $50,000. Noted Aug. 10.

Minn., Dundee — Bank — State Bank of Dundee let contract, 1-story, 45x60-ft., to ERNEST MAHLE, Mankato, $45,450.

PAVING, BOSTON, MASS.

Bids were received Aug. 18 by Public Works Department for paving from (A) Central Construction Co., 6 Beacon St.; (B) Warren Bros. Co., 142 Berkeley St.; (C) J. Doherty, 133 Calumet St.; (D) Bermudez Co., 246 1st St. The item bids were as follows:

	A	B	C	D
10 cu.yd. earth excavation	$2.00	$1.50	$1.00	$2.00
10 cu.yd. rock excavation	1.00	2.00	1.00	5.00
300 l.f. straight edgestone, hauled and set	.25	.20	.20	.25
175 b.f. circular edgestone, hauled and set	.15	.17	.15	.15
7,955 l.f. edgestone, reset	.15	.15	.14½	.15
385 sq.yd. granite blocks, relaid, gravel joint	.55	.53	.43	.60
953 sq.yd. granite blocks, relaid, grout joint	1.85	2.00	1.80	1.70
150 sq.yd. flagging crosswalks, relaid, gravel joint	.65	.50	.50	.60
80 sq.yd. flagging crosswalks, relaid concrete base and grout joint	1.50	1.80	1.80	1.80
14,890 sq.yd. asphalt wearing surface on concrete base with bitumen concrete binder	2.34	2.09	....	2.40
12,415 sq.yd. asphalt wearing surface on macadam base with concrete binder	1.40	1.21	....	1.40
14,890 sq.yd. Topeka Wearing surface on concrete base	2.35	....	....	2.40
12,415 sq.yd. Topeka Wearing Surface on macadam base	1.40	....	....	1.40
14,890 sq.yd. bitulithic surface on concrete base	....	2.42	2.42	....
12,415 sq.yd. bitulithic surface on macadam base	....	1.54	1.58	....
4,360 sq.yd. brick blocks, on concrete base, furnished and laid	2.80	2.73	2.93	2.80
4,830 sq.yd. brick sidewalks relaid	.22	.30	.33	.30
28,420 sq.ft. granolithic sidewalks	.16½	.16	.16	.18
870 sq.ft. granolithic driveways	.17	.17	.17	.20
1,670 sq.yd. wood block paving, including concrete base	3.45	3.42	3.77	3.86
925 sq.yd. wood block paving for brow stone	3.20	3.42	3.84	4.10
150 tons crushed stone furnished in place	.15	2.00	1.75	3.00
Extended totals (asphalt)	$80,985	$75,731	.....	$84,728
Extended totals (topeka)	81,134			84,728
Extended totals (bitulithic)	.....	84,742	86,639	.....

Carrington Construction Co. has removed its offices to the Passaic National Bank Bldg., Passaic, N. J.

The One-Hundred-and-Five West Fifty-Fifth St. Corporation, 65 West 46th St., New York, solicits catalogs and price lists from manufacturers and dealers of building material, supplies and general equipment.

TRADE PUBLICATIONS

Evinrude Unit Centrifugal Pump. Evinrude Motor Co., Milwaukee, Wis. Pamphlet; pp. 8, 4x9 in.; illustrated. Description of unique contractors' machine comprising gasoline engine, pump and holding frame.

Form-a-Truck Attachment. Smith Form-a-Truck Co., 1470 Michigan Blvd., Chicago, Ill. Pamphlet describing this attachment, which makes a complete 1-ton delivery truck when installed on a Ford chassis.

Reinforced Concrete Pile, Trestles, Culvert Pipe. C. F. Massey Co., Peoples Gas Bldg., Chicago, Ill. Catalog; pp. 28, 5½x8 in.; illustrated.

Sanitary Equipment. Kaustine Co., Inc., Buffalo, N. Y. Catalog E; pp. 48, 8x10½ in. What is here called "waterless sewage disposal" consists of mounting a water-closet bowl above a steel tank containing water and a chemical agent named Kaustine. A rotary agitator is placed in the tank. Ventilation is provided. Installations are adapted for houses, institutions and industrial plants. The company sells the chemical agent.

Gasoline-Engine-Operated Stone Unloader. Belt type. Delivery of 1 cu.yd. per min. The Burch Plow Works Co., Crestline, Ohio. Circular. Illustrated.

Industrial Cars and Factory Trucks. The Lakewood Engineering Co., Cleveland, Ohio. Book No. 16; pp. 152, 6x9 in. Describes and illustrates cars of all kinds—dumps of many varieties, mine cars, stone sleds, cars especially for tunnel and sewer construction, scale cars, cars for rolling mills, sugar refineries and creosoting plants, etc.

Iron Cements, Paints, Etc. Smooth-On Mfg. Co., 570-574 Communipaw Ave., Jersey City. Smooth-On Instruction Book No. 16. Pp. 144, 4½x6½ in. This contains many new examples and illustrations showing the working of the different Smooth-On iron cements, and ought to be useful to engineers.

Link-Belt Sprocket Wheels, Traction Wheels, Gears, Buckets, Etc. Link-Belt Co., Chicago, Ill. Book No. 275; pp. 112, 6x9 in. This contains revised price lists effective July 15, 1916.

Portable Conveyors. The Jeffrey Mfg. Co., 923 North 4th St., Columbus, Ohio. Bulletin No 184; pp. 12, 6x9 in. Conveyors for handling barrels, boxes, bags, etc., are described in this bulletin.

THE DETERMINATION OF UNIT PRICES IN APPRAISALS FOR RATE MAKING*

By Judson C. Dickerman†

The reproduction cost new of a public utility as of a certain date is an estimate of the cost of reëstablishing an existing plant and business exactly as it is on date of appraisal, assuming that all conditions existing on the date of appraisal are operative except the one that the utility in question has been previously established. Logically such an appraisal is based on an exact inventory of the existing physical property, to which unit prices as of the date of appraisal have been applied, with such additions for intangibles as would be necessary to establish the business.

The inventory is almost wholly a matter of exact observation of existing material, with the relation of each item to other items, and requires the exercise of but little judgment that will affect the appraisal beyond that necessary in classifying and grouping the various items in order to apply unit prices.

The choice of the unit prices to be used, however, calls for a marked exercise of judgment which vitally affects the appraisal. The choice of the unit prices to be used depends upon several factors:

1. The sources. Among possible sources of information are quotations in trade journals, if the prevailing discount is known; actual prices paid for closely similar materials or equipment by other business enterprises in the neighborhood; (actual prices paid by the utility for the various items of its property; quotations obtained on request from dealers in position to furnish any portion of the property); estimates of contractors and engineers of experience who are acquainted with market conditions locally and elsewhere.

2. The elements of cost included in the unit price. On any structure or piece of equipment, the price used may be merely the purchase or dealer's price, to which must be added elsewhere allowances for freight, teaming, labor in placing in position, use of tools, etc.; or it may cover the cost in place ready to operate, which in turn must be distinguished as to whether it covers materials, direct labor and expense only, or includes in addition general supervision, general expense, taxes, etc. In short, the question is whether the unit price taken is purchase, sub-contractor's, or general contractor's price.

3. Whether the unit price is to be taken as that presumably existing in the market as of the date of appraisal, an arithmetical average of prices at regular intervals for a term of years preceding, a "weighted" average for a term of years, or a trend price, based on someone's judgment of a plot of prices covering many years, or what is called a normal or fair price in view of all the conditions which surrounded the actual construction of the real plant whose reproduction cost is desired.

This paper is chiefly interested in the questions involved under No. 3 for their solution determines in large measure the decision in regard to (1), and (2) becomes a matter of ready agreement

Under our competitive system, with published list prices subject to important and usually markedly varying discounts, with contractors' bids and estimates largely influenced by the status of their own business at the time, and with the complications affecting prices, particularly of labor, if a big plant were to be rushed to completion, prices as of a certain date are extremely variable and subject to great uncertainty. In fact, any prices approximating the real situation can only be determined in most cases months, if not years after the date selected, when definite information of a competitive nature will be released. It is a matter of judgment which price is fair to use, if one compares the actual bids of contractors submitted for similar work under specifications identical for each particular job. The Public Service Commission, 2nd District, State of New York, in the Buffalo Gas case, gives numerous instances of actual bids submitted, and estimates of numerous engineers as to unit prices, and finally ends up with the clear and forceful statement that fixing a unit price for an extensive system of gas mains from data submitted by engineers or inferred from contractors' bids on other jobs is nothing but a guess and the commission declined to make the guess.

The writer has examined the literature concerning valuation cases with a view to determining the attitude of responsible bodies such as courts and public utility commissions, toward the basis from which unit prices were to be derived.

Of all the cases of prominence where rate making was to be influenced by necessary returns on a reproduction cost new, I have found but two or three which took the position that the reproduction cost new must be based on unit prices as of date taken. One was the New York Consolidated Gas case, in which a lower court fixed on prices as of date of appraisal, which question was not considered directly when the case was taken to the United States Supreme Court. Another was the Louisville & Nashville R.R. vs. Railroad Commission of Alabama, carried to the United States court, where present prices were used in the original appraisal because of the form of law, and at a later date on review the same were confirmed accompanied by the statement that investigation showed the prices used to have accorded well with the price tendency of the times. In other words, the "as of date" prices taken, time had proved to be average prices over a period of a few years. In Texas in 1903 and in the State of Washington somewhat later, in some railroad cases, prevailing prices as of date of appraisal were used.

On the other hand, in the great number of valuations made during recent years by state commissions, the apparently universal practice has been to develop unit prices on all material and labor subject to market fluctuations so as to obtain "normal" or reasonable prices. The commissions have taken the position that the whole purpose of the appraisal is to obtain a fair value for rate-making purposes and that, to quote the Wisconsin Commission, "Cost prices based on date of appraisal are not equitable for either rate-making or condemnation purposes." The Supreme Court of Maine in 1904 declared that the unit prices used should be an average of those prevailing during the assumed period of reproduction. The Iowa Supreme Court in a well-known gas case declared against the use of either highest or lowest prices.

The Minnesota Railroad and Warehouse Commission used the average price prevailing in the single year 1905, and investigation later showed these prices essentially the average for five years preceding June, 1907. In the appraisal of the Michigan railroads by the state railroad commission, prices for permanent materials were based on five- to ten-year averages, while for some items, like lumber and ties, the yearly average of the year of appraisal was used.

The Wisconsin Commission has used since 1909 an average price based on the five years preceding an appraisal. The New Jersey Public Service Commission in the Passaic Gas case, used largely the average of known costs of the previous eight years, subject to modification in particular instances.

The Public Service Department of the city of Chicago uses averages of prevailing prices for "last few years" on ordinary material, but uses ten-year averages on structural steel, in its valuation of the elevated street railways.

The California Railroad Commission declares for a "reproduction cost new based upon average prices which have obtained during recent years for labor and materials." It suggests the past three years (in the report January, 1911, and January, 1912) as a longer period would give abnormal results due to the influence of the great San Francisco fire.

The New Hampshire Public Service Commission has also adopted the five-year average price for reproduction appraisals. Mr. Osborne I. Yellott, Assistant General Counsel to the Public Service Commission of Maryland in his recommendations to the commission as to reproduction cost of the C. & P. Telephone Co. 1913-14, states that "a reasonable period must be allowed, even for theoretical reproduction"; and accepts four and five years as a reasonable period, using average unit prices of that period.

It would appear, then, that all authorities practically agree that the strict carrying out of an appraisal for the reproduction cost new as of a given date gives results so liable to error as to be essentially unfair either to one side or the other. They have therefore deviated from the theory and applied to an inventory of a given date unit prices derived from a more or less historical basis, going back five to ten years for average or even the more historical weighted average prices. All the arguments for fair and reasonable valuations seem to be against the immediate present cost theory and strongly favor the valuation on at least a partial historical cost basis.

It would appear, then, that fair valuations of existing physical properties for rate-making purposes are such as are based on the actual historical unit costs to the company of obtaining the property, modified by such additions or subtractions as appear reasonable to compensate for the known trend of prices, known appreciation or depreciation in value as of the time of appraisal and the skill or weakness of the management in obtaining the necessary and useful property.

The valuations as of date of appraisals are based on unit costs which are so much the result of the judgment of the engineers making them that they are little better than opinions. And the opinion of no one man or associated group of men, particularly where such group or individual is liable to be influenced directly or indirectly by the interest employing him, can be taken with safety as to a fair and reasonable value.

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*Condensed from the "Utilities Magazine" for July.

†Formerly Chief of the Bureau of Public Lighting, Philadelphia.

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.

Track Installation

Bids received Aug. 10 by Public Service Commission for First Dist., for installation of tracks on portion Broadway-Fourth Ave. rapid-transit system in boroughs of Manhattan and Brooklyn, from (A) T. H. REYNOLDS CONTRACTING CO., INC., 13 Park Row (awarded contract); (B) T. Crimmins Contracting Co., 44 East 69th St.; (C) Engel & Hevenor. The item bids were as follows:

	A	B	C
3 cu.yd. concrete masonry in place	$10.00	$15.00	$10.00
4 cu.yd. removal of concrete masonry	25.00	30.00	15.00
44 net ton c.-i. pipe, tees and elbows	75.00	65.00	38.00
13 net ton c.-i. hand hole frames and covers	75.00	90.00	48.00
10 concrete bumping posts	400.00	400.00	360.00
24,000 anticreepers	.08	.10	.13
73,000 lin.ft. Type I track—tang. and curves over 2,000 ft. rad	.85	.98	1.25
6,400 lin.ft. Type I track, curves 2,000 ft. to 701 ft. radius	1.25	1.50	1.70
9,200 lin.ft. Type I track, curves under 701 ft. radius	1.50	1.53	1.80
Installing Type II track at stations.			
25,000 lin.ft. installing Type II track, tang. and curves over 2,000 ft. rad	4.10	4.10	4.65
500 lin.ft. installing Type II track, curves of 2,000 ft. to 701 ft. rad	4.20	4.64	4.75
300 lin.ft. installing Type II track, curves under 701 ft. rad	4.30	4.66	4.85
Installing Type II in Tunnels.			
16,000 lin.ft. installing Type II tang. and curves over 2,000 ft. rad	4.00	3.73	4.90
100 lin.ft. installing Type II curves or 2,000 ft. to 701 ft. rad	4.10	4.27	5.00
2,100 lin.ft. installing Type II curves under 701 ft. rad	4.25	4.29	5.10
Installing special portion 110 complete (lump sum)	600.00	1,170.00	1,000.00
Installing special portion 111 complete (lump sum)	1,600.00	2,200.00	2,000.00
Installing special portion 112 complete (lump sum)	600.00	1,150.00	1,000.00
Installing special portion 113 complete (lump sum)	1,500.00	2,100.00	2,000.00
Installing special portion 122 complete (lump sum)	720.00	1,150.00	2,000.00
Installing special portion 123 complete (lump sum)	1,500.00	2,100.00	2,000.00
Installing special portion 126 complete (lump sum)	1,930.00	2,100.00	2,500.00
Installing special portion 127 complete (lump sum)	1,860.00	2,100.00	2,500.00
Installing special portion 128 complete (lump sum)	850.00	1,150.00	1,250.00
Installing special portion 129 complete (lump sum)	850.00	1,150.00	1,250.00
Installing special portion 130 complete (lump sum)	600.00	1,000.00	800.00
Installing special portion 132 complete (lump sum)	1,000.00	1,400.00	1,100.00
Installing special portion 134 complete (lump sum)	220.00	500.00	250.00
Installing special portion 135 complete (lump sum)	220.00	500.00	250.00
Installing special portion 136 complete (lump sum)	950.00	1,600.00	1,700.00
Extended totals	$288,400	$302,515	$374,250

REALIZING the value this section of the paper is to our readers, we are continually endeavoring to improve both the quality and the number of items published.

For the first four weeks of August we have published 4,203 items, against 2,540 for the same period a year ago, or a gain of about 60%.

SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until Sept. 5, 1916.

State Highway Work

STATE OF MARYLAND,
STATE ROADS COMMISSION,
601 Garrett Building,
Baltimore, Md.

NOTICE TO CONTRACTORS.

Sealed Proposals for building 4 sections of State Highway aggregating about 9.74 miles in length, as follows:

Contract No. B-26—
BALTIMORE COUNTY:

One section along the Liberty Road from Harrisonville to the Old Court Road, about 3.33 miles in length. (Macadam Resurfacing, Oil Bound.)

Contract No. B-28—

One section along the Reisterstown Road from Reisterstown to the Carroll County Line. (Macadam Resurfacing, Oil Bound.) 2.56 miles in length.

Contract No. K-8—
KENT COUNTY:

One section from Chestertown toward Fairlee, about 2.13 miles in length. (Concrete or Macadam, Class C.)

Contract No. M-15—
MONTGOMERY COUNTY:

One section from Dawsonville to the Buck Lodge Road, about 1.72 miles in length (Concrete or Macadam, Class C.) will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 5th day of September, 1916, at which time and place they will be publicly opened and read.

Bids must be made upon the blank form contained in the book of specifications. Specifications and plans will be furnished by the Commission upon application and cash payment of $1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred ($500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission, this 17th day of August, 1916.

FRANK H. ZOUCK, Chairman.
CLYDE H. WILSON, Secretary.

⁂

Bids received until Aug. 30, 1916.

Barge Canal Work

STATE OF NEW YORK
OFFICE OF SUPERINTENDENT OF
PUBLIC WORKS.
Albany, July 27th, 1916.

NOTICE TO CONTRACTORS:

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon of Wednesday, August 30th, 1916, at which place and hour they will be publicly opened and read, for improving the New York State canals pursuant to the provisions of Chapter 147 of the Laws of 1903, and of the acts amendatory thereof and supplementary thereto.

CONTRACT NO. 135
Erie Canal—Section 3

For excavating the point of land on the south bank of the Mohawk river between the bridge and Dam No. 10 at Canajoharie, and incidental work.

Sheets 1 and 2.

Plans may be seen and detailed specifications, engineer's estimate of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y., at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y., at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., and at the canal office, Spaulding's Exchange, Buffalo, N. Y.

Copies of detailed plans or drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city or Albany or New York, issued by a national or state bank in good credit within the State and payable at sight to the Superintendent of Public Works for the five per centum (5 per cent.) of the amount of the proposal.

The person whose proposal snall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The amount of bond required for faithful performance will be ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds, co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the State for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the State will be enhanced thereby.

W. W. WOTHERSPOON,
Superintendent of Public Works.

⁂

Bids received until Sept. 5, 1916.

The Anchlote River Bridge

Clearwater, Fla.

Sealed proposals addressed to the Board of County Commissioners of Pinellas County, Florida, and endorsed "Proposals for the Construction of the Anchlote River Bridge," will be received until twelve o'clock noon on the 5th day of September, 1916, and at that time will be publicly opened and read.

This work includes the erection and construction of a Scherzer Rolling Lift Bridge, clear roadway 16 feet and 57 ft. span c. c. bearings, two reinforced-concrete approaches of two twin spans each, 16 ft. clear roadway and 43 feet clear span.

Bids will be compared on the basis of the lump sum bid, ten yards of concrete, 2,000 lbs. extra steel and 200 lineal feet extra piling. In the lump sum bid bidders will include all royalties.

Each bid must be accompanied by a certified check on a Pinellas County Bank for one thousand dollars ($1,000.00) payable to the Board of County Commissioners of Pinellas County, Florida.

Plans, specifications, forms of contract, proposal and bond may be seen in the offices of The J. B. McCrary Co., Engineers, Atlanta, Ga., Third National Bank Building, and the office of the Board of County Commissioners, Courthouse, Clearwater, Florida.

The Board reserves the right to reject any or all proposals.

C. W. WIECKING,
Clerk of the Board of County Commissioners of Pinellas County, Florida.
By B. H. McMULLEN,
Deputy Clerk.

⁂

Bids received until Sept. 5, 1916.

Street Improvement

Jenkins, Ky.

Proposals will be received by The Consolidation Coal Company, of Jenkins, Ky., up to 5:00 P.M., September 8th, for the following street improvement work:

4,400 sq.yds. one-course concrete pavement.

3,900 lineal feet of concrete curb and gutter.

9,000 sq.ft. of cement sidewalk.

Plans and specifications can be obtained from the Chief Engineer, Jenkins, Ky.

The Company reserves the right to reject any and all bids.

Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Pennsylvania—Chamber of Commerce, Johnstown, interested in railway from Johnstown to Somerset.

Pennsylvania—Johnstown Traction Co. plans extension to Seward, about 7 mi. G. N. Smith, Johnstown, Ch. Engr.

Maryland—(Press)—Surveys being made for electric railway from Potomoc River near Williamsport, Md., to Millville and Harpers Ferry, W. Va., thence to Leesburg, Va. Address Martin & Seibert, Attys., Martinsburg, W. Va.

West Virginia—Charleston Interurban Railway Co. plans to extend Cabin Creek Junction line to Montgomery, about 10 mi. F. M. Staunton, Charleston, Secy.

West Virginia—Hartland Colliery Co., Clarksburg, purchased 15,000 acres coal land in Clay County, and will build railway to connect with Chesapeake & Ohio Ry., about 6 mi. J. B. Hart, Clarksburg, Pres.

West Virginia—Pennsylvania R.R. purchased Wellsburg & State Line R.R. and will rehabilitate it and extend it to Marianna coal field via Canonsburg. A. C. Shand, Philadelphia, Ch. Engr.

South Carolina—Preliminary surveys being made for railway from Greenville via Hendersonville to Asheville, N. C, about 60 mi. Address Chamber of Commerce, Greenville.

South Carolina—Seaboard Air Line Ry. plans 6-mi. branch from Savannah extension, now being constructed, to Beaufort. W. D. Faucette, Norfolk, Va, Ch. Engr.

Georgia—Gainesville Railway and Power Co., Gainesville, plans extension. S. Brown, Gainesville, Mgr.

Georgia—(Press)—Savannah Western R.R. plans to extend line from Florence, Ga., to Estill, S. C., about 150 mi. A. M Rea, Savannah, Secy.

Georgia—Waycross St. and Suburban Ry., Waycross, plans to extend line along Washington Ave. from Gilmore to Wardlaw Ave. J. S. Walker, Waycross, Treas

Georgia—State plans to extend Western & Atlantic R.R. from Atlanta to sea. Will probably issue $10,000,000 bonds for same. J. A. Baldwin, Atlanta, Supt.

Florida—Lakeland, Bartow & Winterhaven Railroad Co, Winterhaven, granted charter for railway from Lakeland to Bartow and Winterhaven, about 25 mi. J. L. Wilson, Altoona, Penn., Pres, and E. B. Nelson, Baltimore, Md., Gen. Mgr. Noted July 20.

Alabama—Alabama Great Southern R.R. and Mobile & Ohio R.R. plan to build storage tracks in connection with new freight depot. C. Dougherty, Cincinnati, Ch. Engr., Alabama Great Southern, and B. A. Wood, Mobile, of Mobile & Ohio R.R.

Alabama—Mobile Light and Railroad Co., Mobile, granted franchise to extend Dauphin St. line. P. P. Crafts, Mobile, Engr. Noted June 22.

Mississippi—Vicksburg Light and Traction Co. plans new tracks on Farmer and South Washington St., Vicksburg. C. L. Sheffield, Vicksburg, Ch. Engr.

Kentucky—Yellow Poplar Lumber Co., Coal Grove, Ohio, plans narrow-gage railway from McVey, 15 mi.

Ohio—New York, Chicago & St. Louis R.R., Cleveland, plans to electrify line within city limits, also few miles east and west. E. E. Hart, Cleveland, Ch. Engr.

Illinois—Southern R.R. plans spur line from Mt. Carmel to Lawrenceville. B. Herman, Washington, D. C., Ch. Engr. M. W. and Struc.

Iowa—Ft. Dodge, Des Moines & Southern Railroad Co. plans extension from Boone to Evanston. R. L. Cooper, Boone, Ch Engr.

Kansas—Arkansas Valley Interurban Railway Co. plans extension north from Newton to Gossel. C. D. Bell, Wichita, Secy.

Montana—Northern Pacific Ry. plans line from Helena to Rimini. W. L Darling, St. Paul, Minn, Ch. Engr.

Texas—H Pearlstone, Palestine, interested in railway from Palestine to Dallas, about 100 mi.

New Mexico—El Paso & Southwestern Railroad Co, El Paso, Tex., applied to de facto government of New Mexico for privilege to build Nacozari division from Nacozari to some undeveloped port of the Gulf of California, about 125 mi. G. F. Hawks, El Paso, Gen. Mgr.

California—Bd. Trustees, Whittier, passed ordinance granting Pacific Electric Railway Co. franchise to construct railway on certain streets. J. McMillan, Los Angeles, Gen. Mgr.

California—Southern Pacific Co. making surveys for line from Milton to Copperopolis, 18 mi. W. Hood, San Francisco, Ch. Engr.

Bids In and Contracts Awarded

Alabama—Lindsey Lumber and Export Co., Mobile, let contract for logging railway into timber lands near Saraland to J. N. GILLIS & SON.

Tennessee—Pigeon River R R, Knoxville, incorporated for railway from Knoxville to Pigeon Ford and above Gatlingsburg, about 26 mi. Line will be built by PIGEON RIVER CONSTRUCTION CO. L. E. Wooten, Gen. Mgr. Sevierville & Eastern R.R., Knoxville, interested.

Wisconsin—Wisconsin Interurban Ry. let contract grading for interurban line from Madison to Stoughton to J. T. ADAMS, Columbus Trust and Savings Bldg., Columbus.

Montana—Chicago, Milwaukee & St. Paul Ry. let contract grading line from Grass Range to Winnett, 20 mi., to D. J. BURKE, Lewiston. Noted July 27.

Ontario—Canadian Northern Ry., Toronto, let contract 15,000 tons rails to UNITED STATES STEEL CORPORATION, 71 Broadway, New York, N. Y.

LIGHT, HEAT AND POWER

Proposed Work

Maine, Howland—Howland Pulp and Paper Co. plans concrete dam, penstocks, boilers, etc., at plant. About $150,000.

Mass., Great Barrington—Great Barrington Electric Light Co. plans extending transmission lines to New Marlboro and Southfield.

N. Y., Binghamton—Binghamton Light, Heat and Power Co. granted permission to issue $500,000 bonds for power house, etc. S. H. Bailey, Binghamton, Gen. Mgr.

N. Y., Cooperstown—Colliers Light, Heat and Power Co. granted franchise by Pub. Serv. Comn. to extend transmission line to Otsego County. C. L Stone, Cooperstown, Gen. Mgr. Noted Feb. 17.

N. Y., Deposit—Deposit Electric Co. plans to extend system to Tomkins. F. Haverlid, Deposit, Gen. Mgr.

N. Y., Herkimer—Standard Furniture Co. plans power house.

N. Y., Ithaca—Ithaca Gas and Electric Corporation plans to extend transmission lines. L. W. Bennett, Ithaca, Supt.

N. Y., Monroe—Orange & Rockford Electric Co., Monroe, plans to issue $25,000 capital stock for improving and extending its lines. R. W. Smith, Monroe, Pres. and Mgr.

N. Y., Ransomeville—Lewiston & Lake Ontario Shore Power Co. granted franchise to construct electric-lighting system.

N. Y., Union Springs—Union Springs Light and Power Co. plans to improve plant and extend system.

Penn., Chester—Chester Valley Electric Co. plans addition to power plant. H. T. Hartman, Land Title Bldg., Philadelphia, Pres.

N. C., Badin—Tallahasse Power Co plans dam on Yadkin River. A. V. Davis, Oliver Bldg., Pittsburgh, Penn., Mgr.

Ga., Gainesville—Etowah Milling and Power Co. plans hydro-electric plant on Etowah River.

Ga., Macon—Macon Gas Co. plans to improve plant on Walnut St. About $25,000.

Fla., Palatka—G. L. Bailey granted franchise to construct transmission lines in county.

Ala., Atmore—W. M. Carney Mill Co. plans transmission line into farming district, about 3½ mi. F. Sintes, Mgr. Electrical Dept.

Tenn., Bristol—F. Dulaney and associates applied to Council for franchise to furnish city with light and power from plant on Holston River.

Tenn., Carthage—W. P. Eaves granted franchise by Council to construct electric-light system.

Ohio, Lorain—Lorain Electric Co. plans improving system and building power station. About $250,000.

Ind., Gary—Calumet Electric Co. plans extending transmission line. About $75,000.

Minn., St. Paul—Prudential Light and Power Co. plans hydro-electric plant on Mississippi River.

Kan., Belpre—City voted $10,000 bonds for transmission line and distributing system. I. C. Bushong, Ottawa, Engr. Noted July 13.

Kan., Wellsville—Wellsville Electric Light, Power and Ice Co. plans to improve plant. C. A. Smith, owner.

Neb., Barnston—Preliminary plans being made for hydro-electric plant on Blur River. G. W. Steinmeyer, Beatrice, interested.

Neb., Harrison—L. J. Price, Casper, Wyo., granted permission for electric-light plant in Harrison.

Neb., Imperial—See item under "Water-Works."

Neb., Sterling—Sterling Light and Power Co. organized to take over local electric-light plant and to improve same. W. W. Marks, interested.

Ark., Ft. Smith—City plans electric-light plant.

Ark., Harrisburg—Harrisburg Electric Light and Power Co. plans to improve and enlarge its plant.

Mo., St. Louis—Wintergarden Ice Co. granted permit for 2-story power house at 5663 Kingsbury Blvd.

Ark., Heber Springs—City making plans for electric-light plant.

Tex., George West—See item under "Water-Works."

Tex., Miami—See item under "Water-Works." Noted Aug. 24.

Okla., Shawnee—Shawnee Gas and Electric Co. plans transmission line from Shawnee to Ada, 80 mi. W. Mainland, Oshkosh, Wis., Pres.

Idaho, Kendrick—Potlatch Electric Co. plans to improve system. A. V. Dunkle, Secy. and Mgr.

Ariz., Williams—E. P. Ripley, Chicago, Ill., Pres. Atchison, Topeka & Santa Fe R.R., and associates, have taken over Grand Canyon Reservoir and hydro-electric project and will build dam, etc.

Wash., Seattle—City plans 2 rein.-con. substations, about $75,000. D. Huntington, City Arch. J. D. Ross, Supt. Lighting Dept.

Bids In and Contracts Awarded

Conn., New London—New London Ship and Engine Co. let contract power plant to WESTINGHOUSE, CHURCH, KERR & CO., 37 Wall St., New York.

N. J., Bloomfield—Sprague Electrical Works, subsidiary of General Electric Works, Watsessing, let contract 6-story power plant to J. W. FERGUSON.

Penn., Philadelphia—Pennsylvania R.R. let contract power station at Reed St. yards to J. N. GILL & CO., Philadelphia, $20,074.

Minn., Rapidan—Good Thunder Electric Co., Good Thunder, let contract for extending system 2 mi. from Rapidan dam to NORTHERN STATES POWER CO.

BRIDGES

Proposed Work

N. Y., Conklin—Town Supt. receiving bids Sept. 5 for steel and concrete bridge over Big Snake Creek. C. G. Bailey, Supt.

N. Y., New Hartford—City making plans for rein.-con. bridge. About $5,000. Arthur O'Brien, Supt. Noted July 13.

N. Y., Wellsville—City making plans for bridge. About $15,000. Harry Craig, Wellsville, Supt. Highways.

N. J., Chatham—Board Freeholders plan bridge on Summit Ave.

N. J., Trenton—Penn R.R. made plans for bridge over Delaware & Raritan Canal, Bakers Basin.

N. J., Trenton—County making plans for bridge over Carr's Brook, Hopewell Township, and culvert at Valley Schoolhouse Rd., Hopewell Township. Noted Aug. 24.

Penn., DuBois—City plans bridges in Brady Township.

Penn., Norristown—State Hospital plans new concrete bridge. George S. Idell, Arch.

W. Va., Fairmont—County receiving bids Sept. 12 for concrete bridge across West Fork River near Everson. Frank J. Wilfong, Fairmont, County Engr.

N. C., Gastonia—County Comrs. to issue $100,000 bonds to reconstruct bridges destroyed by flood. Address County Clk., Gastonia.

N. C., Hendersonville—See item under "Streets and Roads."

Fla., Cocoa—County Comrs. receiving bids Sept. 12 for Cocoa and Merritt Island Bridge. C. M. Roger, Daytona, Engr. Noted Aug. 17.

Fla., Tallahassee—County Comrs. receiving bids Sept. 18 for steel bridges. Address County Clk., Tallahassee.

Ala., Bay Minette—Baldwin County Comrs., Bay Minette, and Monroe County Comrs., Monroeville, plan bridge across Alabama River.

Miss., Gulfport—County plans bridge across Bay St. Louis. Address County Clk., Gulfport.

Miss., Lucedale—See item under "Streets and Roads."

Ky., Bedford—Trimple County sold $45,000 bridge bonds. Noted June 29.

Ky., Ludlow—(Official)—City receiving bids Sept. 14 for rein.-con. viaduct on Elm St. About $25,000. J. J. Weaver, Engr. Noted Aug. 10. (See adv. in Aug. 24 issue.)

Ohio, Cleveland—Cuyahoga County receiving bids Sept. 16 for bridge work, per Report No. 3911. E. G. Krause Clk.

Ohio, Columbus—County Comrs. plan rein.-con. bridge at 3rd St. over Olentangy River. About $80,000. Address County Clk. Columbus.

Ohio, Coshocton—Utilities Coms. approved plans for bridge at Pine and Vine St.

Bridges (Continued)

Ohio, Marion—County Comrs. receiving bids Sept. 16 for bridge over Tymochtee Creek, Grand Township. Address County Clk., Marion.

Ohio, Media—County receiving bids Sept. 5 for bridge in Media Township George McNeal, County Audr.

Ohio, New Philadelphia—Board Comrs. receiving bids Sept. 5 for repairing 2 bridges in Rush Township. R. H. Nussdorfer, New Philadelphia, County Audr.

Ind., Bloomfield—County Comrs. receiving bids Sept. 6 for 3 bridges. George E. Kidd, Bloomfield, County Audr.

Ind., Greensburg—County Comrs. receiving bids Sept. 4 for bridge. J. C. Barbe, Greensburg, County Audr.

Ind., Huntington—County plans 7 new bridges, about $7,000 and repairing several bridges, about $15,000. Address County Clk., Huntington.

Ind., Jasper—County Comrs. receiving bids Sept. 5 for steel bridge. J. H. Seng, Jasper, County Audr.

Ind., Knox—County Comrs. receiving bids Sept. 5 for 5 bridges. C. W. Weninger, Knox, County Audr.

Ind., Newport—County Comrs, receiving bids Sept. 4 for bridge. Roy Slater, Newport, Audr.

Ind., Warsaw—City making plans for concrete and steel bridges. Paul Sunny, Engr.

Mich., Bear Lake—County to vote $6,000 bonds for bridge over Manistee River. Noted Aug. 24.

Mich., Lansing—State Highway Comn. receiving bids Sept. 6 for steel birdge over Huron River.

Mich., Saginaw—Pere Marquette Railroad made plans for steel bridge over Saginaw River. About $300,000.

Ill., Carlyle—(Official)—State Highway Dept. receiving bids Sept. 6 for rein.-con. bridge. Address County Clk., Carlyle.

Ill., Watseka—(Official)—County receiving bids Sept. 4 for 4 rein-con. bridges. Benjamin Jordan, Watseka, County Supt. of Highways. Noted Aug. 17.

Iowa, Algona—Board County Supvr. soon to let contract for 16 bridges and culverts. Address County Clk., Algona.

Iowa, Waterloo—Illinois Central Railroad plans bridge on Barclay St.

Minn., Crookston—County receiving bids Sept. 9 for steel and concrete bridges. Address County Clk., Crookston.

Minn., Hastings—County receiving bids Sept. 11 for State Bridges Nos. 2373 and 2374. P. A. Hoffman, Hastings, County Audr.

Minn., Nielsville—City receiving bids Sept. 9 for 2 rein.-con. culverts. O. S. Roningen, Chmn.

Kan., Geneva—Allen County soon to receive bids for 9 bridges and culverts. J. H. Brown, Chn., County Bd., Iola.

Kan., Leavenworth—City making plans for rein.-con. bridge over Atchison, Topeka & Santa Fe tracks at Penn, Michigan and Ohio Ave. Noted Aug. 24.

Neb., Oshkosh—Garden County making plans for bridge. Address County Clk., Oshkosh.

S. D., Canton—County receiving bids Sept. 5 for 37 concrete bridges. G. O. Lomen, Canton, County Audr.

S. D., Oacoma—County receiving bids Sept. 5 for repairing county bridges. K. McKenzie, Oacoma, County Audr.

S. D., Salem—County receiving bids Sept. 5 for bridges in various townships. C. F. Ericsson, Salem, County Audr.

Mo., Kansas City—City making plans for viaduct on East 27th St. between Paseo and Highland. About $100,000. Hedrick & Hedrick, 506 Interstate Bldg., Engr.

Mo., Kansas City—Board Pub. Wks. approved plans for rein.-con. bridge across Brush Creek at Troost Ave. About $30,000. Curtis Hill City Engr. Noted July 20.

Mo., Kansas City—(Official)—City receiving bids Nov. 1 for rein.-con. bridge on 27th St. Hedrick & Hedrick, 506 Interstate Bldg., Engr. Noted Aug. 17.

Ark., Corning—County Comrs. receiving bids Sept. 26 for bridge across Black River. Noted June 8.

Okla., Altus—Jackson County plans 20 concrete and steel bridges. Address County Clk., Altus.

Okla., Caddo—County Comrs, soon to let contract for 16 steel bridges. About $80,000. Address County Clk., Durant.

Okla., Newkirk — Kay County Newkirk, and Noble County, Perry, appropriated $6,000 for bridge over Salt Fork connecting two counties.

Okla., Oklahoma—County Comrs. soon to let contract for steel or concrete bridges on state and county roads. About $75,000. Address County Clk., Oklahoma.

Okla., Pocola—City to vote $5,000 bonds for bridge across Cedar Creek. E. L. Harlan, Clk.

Okla., Poteau—LeFlore County, Poolla Township, voted $5,000 bridge bonds. J. W. Bolt, Poteau, Trus. Noted Aug. 3.

Okla., Reno—County Comrs. plan expenditure of $25,000 for repairing bridges. Address County Clk., Reno.

Wash., Arden—State Highway Comn, receiving bids Sept. 6 for rein.-con. bridge on Inland Empire Highway, over Little Pend Oreille River.

Calif., Elwood City — County receiving bids Sept. 5 for 2 concrete culverts on Middlefield Rd. J. H. Nash, Elwood City, County Clk.

Calif., Eureka—County soon to receive bids for 4 bridges. Fred M. Kay, Eureka, County Clk.

Calif., San Diego—(Official)—City to vote on proposition to build rein.-con. bridge over San Diego River in fall. About $50,000. George Cromwell, City Engr. Noted Aug. 3.

Que., Montreal—(Official)—City receiving bids Sept. 6 for rein.-con. bridge over aqueduct, also for water system. T. W. Lesage, Supt. Noted Aug. 3

Ont., Middleton—City Council plans 50-ft. bridge at Watson's Mills. D. W. White, Courtland, Clk.

Man., Gladstone—Town receiving bids Sept. 12 for culvert. P. St. Clair McGregor, Secy.

Bids In and Contracts Awarded

Maine, Oldtown — City let contract highway bridge to SANDERS ENGINEERING CO., 102 Exchange St., Portland. About $8,000.

Mass., Springfield—Bd. Pub. Wks. let contract Dwight St. bridge to L. J. SEILING, 171 Madison Ave., New York. About $18,315. Noted Aug. 3.

Mass., Westfield—(Official)—City received low bids for concrete bridges over Little River and Munns Brook from W. J. Wood, Jr., Flushing, N. Y., about $39,997; Hynes Construction Co., Springfield, about $43,548. Noted Aug. 17.

R. I., Woonsocket—Board Alderman let contract bridge on Allen St. over Lippitt Mills to S. BRIEN & SON, Woonsocket; also bridge over Peter River on Mills St., about $6,875. Noted Aug. 3.

N. Y., Batavia—City let contract 5 bridges to WARSAW CONSTRUCTION CO. About $11,300.

N. J., Cranford—Board Chosen Freeholders let contract bridge at Springfield Ave. to LOGAN CONSTRUCTION CO., 13 Park Row, New York. About $14,217.

N. J., Weehawken—City let contract repairing Hackensack bridge to ROBERT J. EIMNER, Weehawken. About $8,300.

Penn., Brookville—Comrs. Jefferson County let contract bridge over Big Run, Henderson Township, to W. DICKINSON, Ridgway. Noted Aug. 3.

Penn., Fort Washington—Philadelphia & Reading R.R. let contract concrete slab bridge over Sandy Run to J. E. BRENNEMAN CO., Philadelphia.

Penn., Jenkintown — Philadelphia & Reading R.R. let contract concrete slab bridge over Tacony Creek to J. E. BRENNEMAN, Philadelphia.

Penn., Media — (Official) — City let contract bridge in Chichester Township to WHITTAKER & DIEHL, Union Trust Bldg., Harrisburg. About $8,300.

Penn., Port Kennedy—County Comrs. let contract bridge over Schuylkill River to BRAUN & STEWART, Philadelphia. About $25,900.

Penn., Shelly—Philadelphia & Reading R.R. let contract rein.-con. slab bridge over Tohican Creek to A. L. CARHART, Philadelphia.

Va., Richmond—State Highway Comn. let contract concrete and steel bridge over Big Otter Creek to ROANOKE BRIDGE AND IRON WORKS, Roanoke. About $4,477.

W. Va., Huntington—Lincoln County let contract bridge over Guyandot River, superstructure to FARRIS BRIDGE CO., Charleston, about $10,600; substructure to SHIPE & THOMPSON, about $6,540.

Ohio, Cleveland—City let contract Clark Ave. bridge, substructure to GREAT LAKES BRIDGE AND DOCK CO., 1640 Williamson Bldg., superstructure to KING BRIDGE CO. About $950,000. Noted June 1.

Ohio, Dayton—City let contract superstructure Upper Miamisburg bridge to S. E. SMITH, Richmond, Ind. About $49,512.

Iowa, Marshalltown—Board Superv. let contract rein.-con. bridges and culverts to INGERSOLL STOUFER ENGINEERING CO., Nevada. About $21,774.

Iowa, Webster City—City let contract 4 bridges and culverts to MORRISON CONSTRUCTION CO., Des Moines.

Minn., Litchfield—County let contract rein.-con. culvert to ARENDT WARTMAN, Watkins.

Minn., Sauk Rapids—City rejected bids for Bridge No. 2315. Noted Aug. 17.

Kan., Belleville—(Official)—Republic County let contract substructure steel highway bridge to CANTON BRIDGE CO., about $6,000; superstructure to LEAVENWORTH BRIDGE CO., about $10,558. Noted Aug. 10.

Kan., Oswego—City let contract 5 rein.-con. arch bridges to TOPEKA BRIDGE AND IRON CO., Topeka. Noted June 27.

Neb., Dakota City—(Official)—Drainage Dist. No. 2 let contract bridges across Elk Creek near Jackson and Pigeon Creek near Hubbard to BEATY BRIDGE CO., Blair. About $12,800. Noted Aug. 3.

Neb., David City—City let contract bridge over Yanike Drainage ditch to NEBRASKA CONSTRUCTION CO., Lincoln.

S. D., Chamberlain — County let contract 3 timber bridges to FEDERAL BRIDGE CO., Des Moines.

N. D., Jamestown—(Official)—Stutsman County let contract 80-ft. span steel highway bridge on concrete abutments to JARDINE & ANDERSON, Fargo. About $11,440. Noted Aug. 10.

Mo., Kansas City—Board Pub. Wks. received low bids for 23rd St. viaduct from J. W. McMurray Construction Co. About $19,450.

Ark., Corning—County rejected bids for 2 bridges at Brown's Ferry and at St. Francis. Noted July 26

Okla., Claremore—County Comrs. let contract 2 bridges to MISSOURI BRIDGE AND IRON CO

Calif., Butte City—City let contract bridge over Butte Slough to TEAL & THOMPSON.

Calif., San Andreas—City let contract concrete bridge near Genocohi to E. A. SNYDER, Sonora. About $9,333.

Calif., Santa Ana—Board Super. let contract rein.-con. bridge across Santa Ana River on Chapman Ave. to H. CLAY KELLOGG, 122 Orange Ave., Santa Ana. About $24,459. Noted Aug. 17.

WATER-WORKS

Proposed Work

Maine, Bath—(Official)—City does not plan reservoir, 3,000,000-gal. capacity, as noted in Aug. 17 issue.

N. Y., Auburn—City to vote in November on proposition to install filter plant. About $20,000. J. Walter Ackerman, Supt. Noted Apr. 13.

N. Y., Batavia—(Official)—City defeated $16,000 water bonds. Noted Aug. 17.

N. Y., New York—(Official)—Bd. Water Supply receiving bids Sept. 12 grouting rock above Eastview tunnel of Catskill aqueduct, Contract 178. Charles Strauss, Pres. Water Supply. (See adv.)

N. J., Beverly—City plans municipal water system.

N. J., Stewartsville—City plans water system Frank Stone and Freeman Metler, interested.

Penn., Altoona—City plans water systems. S A. Gailey, Supt.

Penn., Topton—Borough votes Nov. 7 on $23,000 loan, $16,000 for water improvements. William F. Rohrback, Supt.

Penn., Zelienople—City making preliminary plans for water system. About $12,000. Noted July 13.

W. Va., Sisterville—City soon to let contract for filter plant. About $30,000. Noted Aug. 10.

N. C., Scotland Neck—City plans water and sewer systems

Ohio, Cincinnati—(Official)—City does not plan pumping station for Main and Central Ave. Dist. as noted in Aug. 17 issue.

Ohio, Galion—(Official)—City does not plan purchase of water plant as noted in Aug. 17 issue.

Ohio, Ravenna—City plans filter plant. About $50,000. John S. Mallette, Supt.

Ohio, Toledo—County receiving bids Sept. 5 for $41,000 sewer bonds. Gabe Cooper, Toledo, County Audr.

Ohio, Woodville—City plans water system

Ohio, Youngstown—City plans to issue $100,000 bonds for improving water system. John S. Lewis, Supt.

Ohio, Zanesville—City plans to issue $30,000 bonds for improving 2 reservoirs. Noted Apr. 6.

Ind., Marion—City plans 5,000,000-gal. reservoir. J. F. Fulton, Supt.

Ind., Richmond—County receiving bids Sept 4 for water system. L. S. Bowman, County Audr.

Ind., Richmond—County plans new water system at County Infirmary. W. J. Hutton, Pres

Mich., Holly—City plans extending water mains on West St

Ill., Beardstown—City receiving bids Sept 5 for pumping station. H. C. Weil, Mayor.

Ill., Peru—City plans new reservoir. E Byrne, Supt.

Ill., West Point—City plans to vote on $15,000 water bonds.

Iowa, Riceville—City to vote Sept. 11 on $4,000 water bonds H. A. Yager, Town Clk.

Iowa, Volga—(Official)—City defeated $14,000 water bonds. Noted Aug. 17.

Iowa, Washington—City plans reservoir. St Clair Lewis, Supt.

Minn., Thief River—City receiving bids Sept. 12 for water mains, hydrants, etc. L. Peterson, Supt.

Kan., Winfield—City making plans for water system. Burns & McDonnell, 400 Inter-State Bldg., Kansas City, Mo., Engr.

Water-Works (Continued)

Neb., Dannebrog—Board Village Trustees receiving bids Sept. 15 for water system. J. P. Jacobson, Village Clk. Noted May 11.

Neb., Imperial—City making preliminary plans for water system and electric-light plant. About $30,000.

Neb., Wayne—City voted $12,000 water bonds. J A. Huebner, Supt.

S. D., Brookings—See item under "Sewers."

N. D., Mohall—City to vote bonds for water system.

Mont., Twin Bridges—City rejected bids for municipal water system. About $26,000.

Mo., Barry—City voted $17,000 water bonds.

Mo., Marshfield—City to vote on $6,000 municipal water bonds.

Mo., Sedalia—City making preliminary plans for water system and filter plant. H. C. Warren, Pres.

Mo., Stanberry—City voted $15,000 bonds for water mains.

Ark., Argenta—City plans improving water system in Dist. No. 2. About $200,000.

Tex., Austin — Attorney Generals Dept. approved $100,000 bonds for water system. E. C. Bartholomew, Supt.

Tex., Beeville—City plans municipal water plant. S. V. Greer, Mgr.

Tex., George West—George West Water and Light Co. plans water system and electric-light plant. About $40,000.

Tex., Loraine—Attorney General. Austin, approved $5,000 bonds for water system.

Tex., Miami—(Official)—City to receive bids some time in Sept. for water and electric-light systems. About $25,000. Noted Aug. 17.

Tex., Palestine—Local Water Com. plans improving filter plant and water meters. William Branagan, Supt.

Tex., Temple—City plans concrete reservoir and filter plant. D. M. Seybold, Supt.

Tex., Wellington—City voted $27,000 water bonds. Noted July 6.

Okla., Anadarko—City plans water system. M. A. Kunkel, Supt.

Okla., Bixby—City plans water system.

Okla., Blackwell—City to vote on $45,000 bonds, for water system and electric-light plant. W. D. McIntire, Supt.

Okla., Granite—City defeated bonds for water system. Noted June 22.

Wash., Seattle—Board Pub. Wks. approved plans for water mains in Chelan Ave. and other streets, about $10,000; 34th Ave., about $54,000. L. B. Young, Supt.

Wash., South Bend—Northwest Electric and Water Works Co. plans 300,000-gal. reservoir.

Wash., Vancouver—North Coast Power Co. made plans and will soon let contract for 18-in. water main. H. K. Lugger, Supt.

Calif., Bakersfield—City to vote Oct. 24 on $175,000 bonds for water system in eastern part of city. Noted Apr. 20.

Calif., Victorville—Appleton Land and Water Co. plans 300,000-gal. tank and improving pumping plant. J. S. Thayer, Supt.

N. S., New Glasgow—City making plans for extending water system. About $100,000. J. Roy, Clk.

Que., Montreal—(Official)—See item under "Bridges." Noted Feb. 24.

Ont., London—(Official)—Utilities Board does not plan 10,000,000-gal. reservoir. Noted Aug. 17.

Bids In and Contracts Awarded

Mass., Fitchburg—(Official)—City to extend water mains in South Main St. by day labor. Noted Aug. 17.

Mass., New Bedford—(Official)—City received low bids for superstructure of pumping station, from Benjamin F. Watkins, New Bedford, about $6,412; B. F. Smith Co., New Bedford, about $6,000; G. Ferullo & Co., 31 North Sq., Boston, about $6,965. Noted Aug. 10.

Md., New Market—City received low bid for water mains from E. L. Jones Co., Inc., Dover. About $4,287.

N. Y., Irvington—City let contract water mains to BING BROS., Irvington. About $10,354.

Ga., Lavonia—City let contract water system to SULLIVAN, LONG & HAGERTY, Bessemer, Ala. About $30,000. Noted July 6.

Ohio, Ravenna—(Official)—W. H. Linton, Dir. Pub. Ser., let contract water system as follows: Contract 1 to HOAG & DALL, Cleveland, about $9,604; Contract 2 to GANGL CONSTRUCTION CO., Akron, about $8,815; Contract 3 to LOWENSOHN & ULE, 10402 Parkgate Ave., Cleveland, about $34,780. Noted Aug. 10.

Ohio, Springfield—City received only 1 bid for water mains from M. J. Cooney. About $7,020.

Ill., LaMoille—City let contract sinking well to R. N. LIPPINCOTT, La Moille; tank and steel tower to CHICAGO BRIDGE AND IRON CO.

Iowa, Exira—City let contract improving water system to C. B. REYNOLDS, Council Bluffs; tank to DES MOINES BRIDGE AND IRON CO., Des Moines.

Iowa, Ft. Madison—Citizens Water Co. let contract for filter plants, etc., to WOODRICH CONSTRUCTION CO., about $58,600; pipe distributing system to STEVENS SCHULTE, about $142,800. Noted July 27.

Minn., Duluth—City let contract sinking new well to J. R. GRIFFITH. About $10,000.

Kan., Macksville—City let contract water system to SUTHERLIN CONSTRUCTION CO., 818 Commerce Bldg., Kansas City, Mo. About $26,500. Noted July 27.

Neb., Arnold—(Official)—City let contract for water-system to ROBERT B. SMITH, Lexington, and J. SAVIDGE, Collay. About $13,166. Noted Aug. 17.

Neb., Florence—Metropolitan Water Dist. let contract pumping station to JOHN H. HARTE, about $36,880. Noted Aug. 10.

Neb., Rogers—City let contract water system to ELKHORN CONSTRUCTION CO., Fremont. About $8,285.

S. D., Boland—City let contract water system, including 4 tanks, reservoir, well etc., to WARD & WEIGHTON, Sioux City, Iowa. About $8,445. Noted June 29.

S. D., Tulare—City let contract 18-in. well to NORBECK & NICHOLSON; tank and tower to WESTERN ENGINEERING CO., Yankton.

N. D., Fargo—City let contract water mains on 13th St. to C. H. PORRITT.

Mont., Glendive—City let contract water system as follows: Filter, pump and motor to NORWOOD ENGINEERING CO., Florence, Mass., c.-i. pipe to AMERICAN CAST IRON PIPE CO., hydrants and valves, MERKLE-HINES MACHINERY CO., 508 Inter-State Bldg., Kansas City, Mo. Noted Aug. 10.

Mont., Sheridan—City rejected bids for water system. About $28,000. Noted July 13.

Ark., Stuttgart—(Official)—City let contract water and distribution systems to CARDWELL CO. Noted Aug. 17.

Tex., Kennedy—City let contracts water system as follows: Hydrants, COLUMBIA IRON WORKS, Chattanooga, Tenn., tank and tower, CHICAGO BRIDGE AND IRON CO., Chicago, Ill., engine, etc., LEMIN CO. and SALES CO., pipe, etc., AHRENS & OTT, San Antonio. Noted July 20.

Calif., Los Angeles—Bd. Supvr. received bids for water system in Dist. No. 2 from Thomas Haverty Co., including Class "A" c.-i. 4- and 6-in. pipe, steel tower and pumping station. About $21,435.

Calif., San Francisco—Lakeside Golf Club let contract for water and distribution system at Lake Merced to TRUNER CO., 278 Natoma St. About $22,590.

Que., Drummondville—City received low bids for mechanical gravity filter system from Norwood Engineering Co. of Canada, about $20,900; New York Continental Jewel Filtration Co, 15 Broad St., New York, about $26,741; Security Engineering and Construction Co., about $30,977. Noted Aug. 10.

Alta., Lethbridge—Comrs. Pub. Wks. received low bids for filter plant from Ira H. Jewell, Chicago, about $92,000; Robert Filter Manufacturing Co., Philadelphia, $95,000; New York Continental Jewell Filtration Co. 15 Broad St., New York, $11,000. Noted July 27.

Sask., Assiniboia—(Official)—City let contract water system to H. S. HOLMES, Souris, Man. Noted Aug. 10.

SEWERS

Proposed Work

Mass., Northampton—Council plans sewer system for McCullum's Hosiery plant. About $10,000. W. H. Felker, Mayor.

Mass., Reading—City plans sewer system. F. A. Barbour, 73 Tremont St, Boston, Engr.

N. Y., Gloversville—City receiving bids Sept. 12 for sanitary sewers in Montgomery and Griffin St. About $15,000. H. J. Hanner, City Hall, Engr.

N. Y., Poughkeepsie — City plans improving sewers in North Bridge, Conklin and other streets. E. W. Sylvester, City Engr.

N. J., Bayhead—City receiving bids Sept. 11 for sewer system and disposal plant. About $60,000. Remington & Vosburg, 601 Market St., Camden, Consult. Engr.

N. J., Pompton Lakes—State Board Health approved plans of Caps Works Branch of E. I. du pont de Nemours & Co. for sewage plant. About $10,000. Noted May 25.

N. J., Summit—Council passed resolution for storm sewers in Essex and Fernwood Rd. Hobart Ave., Wittredge and Rithen Pl. and East Summit. About $100,000.

N. J., Trenton—City making plans for sewer No. 668. H. C. Gregory, Engr.

Penn., Connellsville—State Bd. Health authorizes sewage plant.

Penn., Du Bois—City soon receives bids for sewers. About $5,000. J. J. Fulford, Engr.

Penn., Meadville—City receiving bids Sept. 15 for sanitary sewers in Morgan, North and Pine St. B. F. Miller, Jr., City Hall, Engr.

Penn., Monongahela—City receiving bids Sept. 14 for sewers in 6th St. M. G. Borland, Engr.

Penn., New Castle—City plans East Side sewer. C. H. Milholland, City Engr.

Penn., Spring Grove—Borough Council plans to extend sewer system in Walnut St.

Penn., Williamsport—City soon to vote on $60,000 bonds for 31 sewers. John B. Otto, City Engr.

N. C., Scotland Neck—See item under "Water-Works."

Ohio, Bucyrus—City plans sewers in West Mansfield St. A. Broemel, Clk.

Ohio, Cleveland—City plans sewage disposal plant on West 54th St. About $400,000. R. Hoffman, City Engr.

Ohio, Cleveland—City Comrs. receiving bids Sept. 12 for sewers in Church and Vermont Ave., West 25th and West 28th St.

Ohio, Coshocton—Samuel Sahman, Dir. Pub. Serv., receiving bids Sept. 5 for storm sewers, etc., in Adams and Crane St. A. Fisher, City Hall, Engr. Noted Apr. 20.

Ohio, Cuyahoga Falls—City receiving bids about Oct. 1 for trunk sewers. About $90,000. R. W. Pratt, Hippodrome Bldg., Cleveland, Consult. Engr.

Ohio, Dayton—City retained Metcalf & Eddy 14 Beacon St., Boston, Mass., to make plans for septic sewage plant.

Ohio, Elyria—M. M. Wilcox, Dir. Pub. Serv., receiving bids Sept. 5 for sewers in Hayes Ave. and East Broad and West River St.

Ohio, London—Council voted for sewers in Maryland and Park Ave. and McLean St.

Ohio, Marion—City plans sanitary and storm water sewer in Farming St. H. H. Noyes, City Engr.

Ohio, Middletown—City plans storm and sanitary sewers. W. P. Butterfield, Chn. City Comn.

Ohio, Newark—City making plans for sewers in Summit and Spring St. and Curtis and Poplar Ave. W. C. Christian, Dir. Pub. Serv.

Ohio, Rocky Ridge—City receiving bids Sept. 5 for sewage plant. Frank Mitchell, Clk.

Ohio, Tiffin—Council voted for sewers in Ohio, Clinton and Industrial Ave.

Ohio, Toledo—G. Cooper, Audr. Lucas County, receiving bids Sept. 7 for 16 mi. of sanitary sewers. L. A. Boulay, Sanitary Engr.

Ohio, West Park—City receiving bids Sept. 11 for sanitary sewer in Riverside. Dr. F. Feutcher, City Clk. Noted June 1.

Ohio, Wilmington—City soon votes on $80,000 bonds for sewage-disposal plant. H. Collett, Courthouse, Engr. W. Randella, Mayor.

Ind., Centerville—City plans trunk sanitary and storm sewer.

Ind., East Chicago—City making plans for sewers in Catalpa, Deal, Evergreen, Jentian, Hawthorne and Jeffery St. C. K. Wallace, Engr. R. Schlock, Pres. Bd. Pub. Wks.

Mich., Muskegon Heights—City plans sewage plant.

Ill., Cairo—City receiving bids Sept. 25 for repairing sewer in Commercial Ave. G. Dewey, Engr. Noted May 4.

Ill., Niles Center—City rejected bids for storm and sanitary sewers. About $55,000. New bids will be received. H. L. Emerson, 133 West Washington St., Chicago, Engr. G. Klemm, Mayor. Noted Aug. 24.

Ill., Rockford—Bd. Local Impvts. receiving bids Sept. 7 for sewers in Rural St., Greenwood Ave. and Highland Dist. W. W. Bennett, Pres. Bd. Noted Aug. 24.

Ill., Sandwich—City receiving bids Sept. 11 for storm-water drains and sewers in Main and Railroad St. E. L. Ingersoll, City Clk.

Wis., Elkhorn—A. G. Groesbeck, Chn. Com. on Streets, Alleys and Sidewalks, receiving bids Sept. 16 for 31 catch basins, 25 manholes and 6,000 ft. storm-water sewers.

Iowa, Decorah—City receiving bids Sept. 6 for sewers in various streets. F. M. Hughes, City Clk.

Kan., Downs—City receiving bids Sept. 7 for sewer system, about $25,000. E. T. Archer & Co., New England Bldg., Kansas City, Mo., Engr. Noted July 20.

Neb., Geneva—City plans sewage system. About $25,000. Grant & Fulton, Lincoln, Engr.

Neb., Kearney—City votes Sept. 17 on $50,000 bonds for sewers. J. N. Hartzell, City Clk. Noted July 6.

Neb., Lexington — City plans storm sewers. Harry E. Smith, Engr.

S. D., Brookings—City receiving bids Sept. 11 for sanitary sewers. Dakota Engineering Co., Mitchell, Engr. Noted June 22.

Mont., Butte—City making plans for sewers in Montana Ave. and South Park addition.

Mo., Joplin—City plans sewer system, about $200,000. J. C. McAfee, City Engr.

Mo., Maplewood—City receiving bids Sept. 13 for Greenwood Sewer Dist. No. 1. M. F. O'Brien. City Clk.

Mo., Poplar Bluffs—City plans storm sewers in various streets. E. C. Thomas, Engr.

Mo., Sedalia—City making plans for sewage plant, about $65,000. Burns & McDonnell, 499 Inter-State Bldg., Kansas City, Engr.

Mo., Trenton—City receiving bids Sept. 6 for sewers in Sewer Dist. No. 12. M. H. Mooney, City Engr.

Tex., Brenham—City will extend sewer system by day labor. About $20,000. W. Lusk, Mayor.

Tex., Dallas—City Comn. authorizes sewer between Ewing, Lee and Fleming St. and Betterton Circle.

Okla., Altus—City plans sanitary lateral sewers. E. Morgan, City Clk.

Sewers (Continued)

Okla., Cordell—City voted $60,000 bonds for sewer system. Benham Engineering Co., Colcord Bldg., Oklahoma, Engr.

Ariz., Clifton—City making plans for sewer system. A. J. Kerr, City Engr.

Ariz., Globe—City Council plans sewer system. About $240,000.

Wash., Spokane—City soon to let contract for sewer in 33rd Ave. Morton McCartney, City Engr.

Calif., Oak Park—(Sacramento post office)—City receives bids Sept. 1 for sewer. About $7,500.

Calif., San Diego—City making plans for septic tank for Ocean Beach section. About $50,000. George Crogwell, City Engr.

Bids in and Contracts Awarded

Mass., Boston—City let contract sewers in Fruit Blossom and Grove St. to M. DeSISTO, 198 LaGrange St., W., Roxbury.

Mass., Boston—Dept. Pub. Wks. let contract sewage works on Deerfield St. to W. BARRETT CO., 27 Hunneman St., Roxbury.

Mass., Boston—(Roxbury)—City let contract sewers in Burlington Ave. to A. BARUFFALDI, Somerville.

Mass., New Bedford—City received low bid for superstructure of Belleville Ave. pumping station for intersepting sewer system from Benjamin F. Watkins, New Bedford, about $6,413.

Conn., Hartford—Bd. Contract and Supplies let contract sewer in Earle St. to A. H. SLOCOLMB & CO., 148 Beacon St., $5,468.

N. Y., Gloversville—City let contract stormwater sewers to A. BANKER, $5,900.

N. J., Bloomfield—Board Freeholders of Essex County let contract drainage system in portion Broad St. to J. T. BOYLAN, 32 Van Houten Pl., Belleville, $8,906.

N. J., Fairview—City let contract sewer in Park Ave. to A. CHIEL, West New York, $9,000.

N. J., Irvington—Contract sewers in 21st St. let to NORTHERN CONSTRUCTION CO., 665 Broad St., Newark.

N. J., Newark—City let contract sewers in Foster St. and Frelinghuysen Ave. to J. A. CHRISTIE, 34 Center St. Noted July 20.

Penn., Erie—City let contract storm sewers to E. DRISCOLL, 219 French St. About $4,925.

Penn., Oakmont—City let contract storm sewers to J. E. WELLAND & CO., Vandergrift Bldg., Pittsburgh, $6,000.

Penn., Old Forge—City let contract storm and sanitary sewers to OLD FORGE CONSTRUCTION CO., Old Forge.

Penn., Philadelphia—City let contract rebuilding sewer and water mains in Jasper St. to O'NEIL CO., 7815 Germantown Ave.

Ga., Savannah—City let contract Fell St. sewer to BEASLEY CONSTRUCTION CO., Savannah. About $65,078.

Fla., St. Augustine—Board Pub. Wks. let contract extending sewer system to MICHLER & FLYNN, Chattanooga, Tenn., $12 495.

Ohio, Alliance—City let contract storm sewers and catch basins to J. C. DEVINE.

Ohio, Alliance—City let contract sanitary sewer in Woodland-Rice extension and Liberty St. to J. WILSON, $6,559.

Ohio, Berberton—City let contract sewage treatment plant and sewer system to HAMMOND ENGINEERING CO., Elizabethtown, Penn., about $50,000. Noted Aug. 10.

Ohio, Cleveland—City let contract sewage plant to D. W. McGRATH & SON, 801 New First National Bank Bldg.

Ohio, Cleveland—Board Control let contract sewer in Way Ave. to A. MORRA. About $16,952.

Ohio, Cleveland—City let contract sewers in Nathaniel Rd and Mandalay Ave to M. NICHOLAS, 2061 East 125th St, $17,468 and $10,525 respectively.

Ohio, Findlay—City let contract sewer in portion College St. to N. H. TORRENCE.

Ohio, Sylvania—City let contract sanitary sewers in Ottawa, Erie and Summit St to J. N. BICK, Nasby Bldg., Toledo, $7,070. Noted July 6.

Ohio, Warren—City let contract North End trunk sewer to C. HUKERI, Ashtabula, $5,000, North Highland Ave. sewer to H. POFF, Warren, $4,000.

Ohio, Youngstown—City let contract sewers to A. O'HARA, 334 North Watt St.

Ind., Huntington—City let contract sewers in Hannah St. to MARTIN & KOCH; South Jefferson St., P. HIPSKIND & SONS.

Ill., Chicago—City let contract Calumet Intercepting Sewer, Contract No. 7, to T. J. FORSCHNER CONTRACTING CO., Lemont, $900,761. Noted Aug. 17.

Ill., Duquoin—Bd. Local Impvts. let contract sewers to CENTURY CONSTRUCTION CO., Commercial Bldg., St. Louis, Mo. About $22,000. Noted Aug. 17.

Ill., Rock Island—City let contract southwest storm drain to INDEPENDENT CONSTRUCTION CO., 304 Lane Bldg., Davenport, Iowa, $38,000. Noted Apr. 6.

Iowa, Mapleton—City let contract for brick sewer system to C. E. BRIGGS, Shenandoah. Noted Aug. 3.

Iowa, New Hampton—City let contract sewer to COOK & KEAN, Dubuque.

Iowa, Sioux City—City let contract sanitary sewer system and pumping plants in Palmer, Hedges and Morningside additions to JENSEN & CRAIG. Noted July 13.

Wash., Seattle—Bd. Pub. Wks. received low bid sewers in Hudson St. from N. Bodolats, 1707 30th Ave., S., $22,163. A. H. Dimock, City Engr.

Calif., Chino—City received low bid sewer system from J. Chutuk, Los Angeles, $30,583. E. L. P. Wetmore, City Clk. Noted Aug. 3.

Calif., San Jose—City let contract sewer to W. F. EDWARDS, San Jose, $6,633.

Que., St. Lambert—City let contract trunk sewers to DE KEYSER POISMANS CO., 1101 De Valier St., $25,000.

GARBAGE

Proposed Work

N. J., Bayonne—City Comrs. plan garbage incinerator. W. L. Clarkson, City Engr.

Ill., Mattoon—(Official)—City receiving bids Sept. 5 for garbage disposal plant. About $5,000. F. A. Heermans, City Clk. J. A. Goltz, City Engr. Noted Aug. 17.

Sask., Saskatoon—City voted $100,000 by-law for incinerator. A. Leslie, Clk. G. D. Archibald, City Engr. Noted July 20.

Bids in and Contracts Awarded

Wash., Spokane—City let contract crematory plant let to J. B. SWEATT & CO., $19,900.

STREETS AND ROADS

Proposed Work

Conn., Norwich—City plans to pave Thames, Main and Franklin St. and Norwich Ave., Hassam blocks and concrete. G. E. Pilcher, City Engr.

N. J., Blairstown—(Official)—Township Com. receives bids in about 2 months for 1¼ mi. improved roads and 1 mi. new road, about $12,000. A. F. Craig, Clk. Noted Aug. 17.

N. J., Bloomfield—Board Freeholders plan improving East Passaic Ave. E. Baechlen, City Engr.

N. J., Jersey City—City Comn. receiving bids Sept. 5 for improving Oxford and St. Paul Ave. Charles A. Van Keuren, City Engr.

N. J., Newark—Bd. Street and Water Comrs. receiving bids Sept. 7 for repaving portion of Roseville Ave. Morris R. Sherrard, City Engr. Noted May 11.

N. J., Newark—City made plans for improving Central Ave. with bitulithic.

N. J., Long Branch—County plans to improve Brighton Ave., macadam. Address County Clk., Freehold.

N. J., Paterson—Passaic County sold $179,000 road bonds. G. Ferguson, County Engr. Noted May 4.

N. J., Paterson—City receiving bids Sept. 5 for paving East 5th, Warren, Leon and Jersey St., concrete. H. J. Harder, City Engr.

N. J., Trenton—Board Comrs. plans improving Elmhurst Ave. J. R. Fell, Jr., City Engr.

Penn., Natrona—(Official)—City receiving bids Sept. 11 for curbing and paving portion Pine St. in Harrison Township. C. E. Braun, Clk. C. E. Miller, Jenkins Arcade, Pittsburgh, Engr. Noted Aug. 3.

Penn., Plymouth — Borough plans to pave Academy St., $4,500. C. E. Rowe, Engr.

Penn., Sharon—Council passed ordinance to pave 6th St. G. Nichols, City Engr.

Del., Georgetown—(Official)—Rd. Office, Georgetown, receiving bids Sept. 6 for Sects. 5 and 6 of Coleman du Pont Rd. Former bids rejected. Noted Aug. 10. (See adv.)

Md., Baltimore—(Official)—State Rd. Comn., 601 Garrett Bldg., receiving bids Sept. 5 for 4 sections State Highway, Contract No. B-26, Baltimore County, B-28, Contract No. K-8, Kent County and Contract No. M-15, Montgomery County. F. H. Zouck, Chn. (See adv.)

W. Va., Fairmont—City receiving bids Sept. 5 for paving portion Morgantown and East Park Ave. S. B. Miller, City Engr. Noted Aug. 24.

W. Va., Moundsville—County Court, Marshall County, receiving bids Sept. 5 for paving 1-mi. road in Cameron Distt. J. E. Chase, Clk.

W. Va., Point Pleasant—Mason County, Waggoner Dist., defeated $65,000 road bonds. Address County Clk., Point Pleasant. Noted May 18.

N. C., Concord—City plans to pave about 1 mi. on Buffalo and McGill St. R. J. Long, City Engr.

N. C., Danbury—Stokes County, Snow Creek Township, defeated $20,000 road bonds. Noted July 20.

N. C., Dobson—Surry County, Shoals Township, voted $30,000 road bonds. Address County Clk., Dodson.

N. C., Greenville—Pitt County, Winterville Township, voted $50,000 road bonds. Address County Clk., Greenville. Noted June 22.

N. C., Greenville—Pitt County, Ayden Township, voted $50,000 road bonds. Address County Clk., Greenville. Noted July 13.

N. C., Greenville—Pitt County Swift Creek Township, election Oct. 17 to vote on $50,000 road bonds. J. S. Ross, Greenville, Chn. County Comrs.

N. C., Hendersonville—Henderson County to spend about $5 000 for repairing roads and bridges, Address County Clk., Hendersonville.

N. C., High Point—City voted $50,000 street improvement bonds. Noted July 20.

N. C., Morganton—Burke County, Leard Township, voted $50,000 road bonds. Noted July 6.

N. C., Rutherfordton—Rutherford County voted $75,000 bonds for roads and bridges. W. M. Peyton, Engr.

N. C., Wilkesboro—Wilkes County election Sept. 16 to vote on $250,000 road bonds. Address County Clk., Wilkesboro. Noted Aug. 24.

S. C., Florence—City receiving bids Sept. 20 for grading portion South Church St. Charles H. Carlisle, City Engr.

Ga., Atlanta—City passed ordinance to improve and pave Tatnal and Greenwood St. H. V. Hurt, City Engr.

Ga., Metter—Candler County defeated road bonds.

Fla., Bartow—Polk County plans election to vote on $300,000 bonds for 47 mi. road in Winter-Haven Special Rd. and Bridge Dist. Address County Clk., Bartow.

Fla., Brooksville—City plans to pave number of streets.

Fla., Kissimmee—Osceola County plans election to vote on $150,000 road bonds. Address County Clk., Kissimmee.

Ala., Rockford—Coosa County Comrs. receiving bids Sept. 19 for road work. W. P. Moon, Rockford, County Engr.

Ala., Scottsboro—Jackson County Comrs. receiving bids Sept. 20 for improving Woodville and Limerick highways. About $4,000. Address County Clk., Scottsboro.

Ala., Tuskegee—Macon County Comrs. receiving bids Sept. 13 for improving Tuskegee and Notasulga highways. About $5,000. Address County Clk., Tuskegee.

Miss., Carthage—Leake County receiving bids Sept. 7 for 17½ mi. sand clay roads in Dist No. 3. A. S. Blallock, Carthage, Chn. M. D. Smith, Kosciusko, Engr.

Miss., Holly Springs—Marianna Road Dist. Com. receiving bids in October for 15 mi. of road. W. G. Kirkpatrick, 704 Farley Bldg., Birmingham, Ala.

Miss., Holly Springs—Byhalis Road Dist. Comrs. receiving bids Sept. 5 for 9.9 mi. roads including 79,000 cu.yd. excavation. S. W. McClesky, 11 South 2nd St., Memphis, Tenn., Engr.

Miss., Lucedale—Georgia County plans $90,000 bond issue for roads and bridges. Address County Clk., Lucedale.

Miss., Okolona—Chickasaw County receiving bids Sept. 4 for 8 mi. roads in Dist. No. 1. M. D. Smith, Kosciuska, Highway Engr. Noted June 29.

Miss., Starkville—Council passed resolution to pave portion Lampkin St.

Tenn., Cornersville—Town voted $6,000 street improvement bonds. T. L. Coleman, Recdr.

Tenn., Dover—Stewart County voted $200 000 road bonds. Address County Clk., Dover. Noted Mar. 23.

Tenn., Henderson — Chester County defeated $100,000 road bonds. Noted Apr. 20.

Tenn., Ooltewah—James County voted $80 000 road bonds. Address County Clk., Ooltewah. Noted June 22.

Tenn., Shelbyville—Bedford County election Sept. 16 to vote on $350,000 road bonds. Address County Clk., Shelbyville. Noted July 20.

Ky., Jenkins—(Official)—Consolidated Coal Co. receiving bids Sept. 8 for 4,400-sq yd. course concrete paving, 3,900 lin ft. concrete curb and gutter and 9,000 sq.ft. cement sidewalk. Noted Aug. 24. (See adv. in Aug. 24th issue.)

Ky., Mt. Sterling—City soon receives bids for repairing Holt Ave., macadam. Address S. S. Pinney.

Ohio, Akron—Summit County receiving bids Sept, 5 for $20,592 bonds for improving Wooster Rd. U. G. High, Akron, Clk.

Ohio, Alliance—City passed ordinance No. 2177 for improving portion of Hester Ave. W. Shidler, City Engr.

Ohio, Bedford—Village receiving bids Sept. 5 for improving portion Wood Row Ave. and North St. H. T. Hubbell, Clk. C. W. Courtney, 1156 Leader News Bldg., Cleveland, Engr.

Ohio, Bellevue—Council passed ordinance to improve Glendale St. F. H. Robinson, City Clk.

Ohio, Canton—City plans improving portion of Washington Ave. W. E. Sarver, City Engr.

Ohio, Cincinnati—City plans to pave portion 7th, 9th, Court and Richmond St., about $77,000. F. S. Krug, City Engr.

Ohio, Cincinnati—Council passed ordinance to grade Haven, Turrill, Wayne and Knowlton St. F. Krug, City Engr.

Ohio, Cleveland—Cuyahoga County receiving bids Sept. 2 for improving Boston Rd. E. G. Krause, Cleveland, Clk.

Streets and **Roads (Continued)**

Ohio, Cleveland—(Official)—Citizens defeated $3,500,000 street extension bonds. Noted Aug. 17.

Ohio, Cleveland Heights—(Warrensville postoffice)—City receiving bids Sept. 18 for improving Cleveland Heights Blvd. H. H. Canfield, Clk.

Ohio, Corning—Village receives bids about Oct. 1 for paving and curbing portion Adams St., brick. H. Kennedy, Marysville, Engr.

Ohio, Dillonvale—City receiving bids Sept. 26 for paving portion of Church Alley and Thomasson St. Martin Campfield, Clk. of Council.

Ohio, East Liverpool—Council plans to pave St. Clair Ave. J. C. Kelly, City Engr.

Ohio, East Liverpool—Council passed ordinance to improve portion Dresden Ave. J. C. Kelly, City Engr.

Ohio, East Liverpool—Council passed ordinance to improve portion Morton St. J. C. Kelly, City Engr.

Ohio, East Liverpool—Council passed ordinance to improve portion Lisbon St. J. C. Kelly, City Engr.

Ohio, Fremont—Sandusky County sold $84,000 bonds for improving Fremont-Bowling Green Rd. Address County Clk., Fremont. Noted May 11.

Ohio, Georgetown—Village plans to curb and grade various streets, (3) jobs. J. R. Moore, Engr.

Ohio, Hillsboro—Highland County receiving bids Sept. 5 for grading and macadamizing road No. 41. Address County Clk., Hillsboro.

Ohio, Hubbard—City receiving bids Sept. 4 for improving Mill and Church St. J. W. Powers, Clk.

Ohio, Lorain—City plans to pave East and West 23rd St., brick or asphalt. C. M. Osborne, City Engr.

Ohio, Lorain—City plans paving portion of Waverly Pl. C. M. Osborne, City Engr.

Ohio, Marion—(Official) — City receiving bids Sept. 8 for sand stone sidewalks on various streets. E. Soult, City Engr.

Ohio, Massillon—Council passed resolution to improve portion Main St. H. M. Yost, City Engr.

Ohio, Newark—City plans improving portion of Day St. Charles H. Wells, City Engr.

Ohio, New Concord—Village receiving bids Sept. 6 for paving College and Depot St. and Montgomery Blvd., brick and concrete, about 11,580 sq.yd. paving and 10,100 lin.ft. curbing. W. C. Trace. Clk. T. C. Conner, Zanesville, Engr.

Ohio, New Philadelphia—Tuscarawas County plans to pave Dover-Carrollton Rd. Address County Clk., New Philadelphia.

Ohio, Norwalk—City receiving bids Sept. 2 for paving Milan St., about 5,000 sq.yd.

Ohio, Norwood—City receiving bids Sept. 5 for paving portion Cleaney Ave., bituminous macadam. J. G. Schmidt, City Engr.

Ohio, Pomeroy—City plans paving Spring St. with brick. W. J. Jones, Village Clk.

Ohio, Ravenna—City plans to pave Lake St. W. H. Linton, City Engr.

Ohio, Sandusky—(Official)—City receiving bids Sept. 5 for paving and curbing 5th St. A. F. Johnston, City Engr. Noted Aug. 19.

Ohio, Springfield—City Comn. plans improving portion of North St. M. J. Bahin, City Engr.

Ohio, Woodsfield—City plans paving Home Ave. G. P. Dorr, Clk.

Ohio, Youngstown—(Official)—City receiving bids Sept. 8 for improving portion Milton St. F. M. Lillie, City Engr. Noted June 8.

Ohio, Youngstown—(Official)—City receiving bids Sept. 8 for grading portion Stambaugh Ave. F. M. Lillie, City Engr. Noted May 4.

Ind., Bluffton—City receiving bids Sept. 8 for paving Wabash St.

Ind., Boonville—Warrick County sold $92,000 road bonds. Address County Clk., Boonville.

Ind., Brazil—Comrs. Clay County receiving bids Sept. 8 for stone roads in Washington, Posey, Harrison and Perry-Posey Townships, 4 in all. W. O. Graeser, Brazil, Audr.

Ind., Columbus—Bartholmew County receiving bids Sept. 16 for 3 concrete roads in Columbus Township. W. H. Scott, Columbus, County Audr.

Ind., Hartford City—Blackford County sold $20,000 bonds for Atkinson Rd. Address County Clk., Hartford City.

Ind., Laporte—Comrs. Laporte County receiving bids Sept. 7 for roads in Center and Clinton Townships. F. A. Hausheer, Laporte, Audr.

Ind., Portland—Comrs. Jay County receiving bids Sept. 14 for brick roads in Wayne and Richland Townships and stone road in Pike Township. J. Bonifas, Portland, Audr.

Ind., Rochester—Comrs. Fulton County receiving bids Sept. 7 for gravel road in Henry and Rochester Townships. E. A. Smith, Rochester, Audr.

Mich., Highland Park—Village plans to pave Midland and La Belle Ave., concrete, Second, Cortland and Louise Ave., asphalt.

Mich., Mason—Ingham County soon receives bids for concrete road from East Lansing Highway, about $12,000 per mi. Address County Clk., Mason.

Ill., Greenup—City plans to spend $80,000 for curbing, guttering and brick paving. E. M. Kohler, Mayor.

Ill., Rock Island—Council plans to pave 6th and 10th Ave., brick, $22,775. W. Treichler, City Engr.

Ill., Rock Island—Council passed ordinance to pave 44th, 24th and 42nd St. and Railroad Ave., about $52,152. W. Treichler, City Engr..

Wis., Merrill—City receiving bids Sept. 15 for paving Mill and 2nd St., vitrified block on concrete. A. Deleglise, City Engr. Noted Aug. 17.

Wis., Racine—Board Pub. Wks. receiving bids Sept. 9 for improving 3 streets. P. H. Connolly, City Engr.

Iowa, Dallas Center—City plans paving. Capel Engineering Co., Adel, Engr.

Iowa, Estherville—Emmit Co. receiving bids Sept. 12 for graveling 28-mi. county roads. Roy J. Ridley, County Audr.

Kan., Augusta—City plans to pave Augusta St.

Kan., Columbus—City soon lets contract for paving several streets. Noted June 20.

Kan., Hutchinson—Council passed ordinance to pave portion 13th and 19th Ave., brick. E. G. McLane, City Engr.

Kan., Kansas City—City plans to pave Ralph, Greystone and Lombard St., concrete. W. M. Barclay, City Engr.

Mont., Billings—(Official)—City receiving bids Sept. 12 for paving in Dist. No. 152. Work involves 20,000 sq.yd. paving, gravel, bitulithic, concrete or macadam, together with storm sewers, gutters, etc. E. M. Sneckenberger, City Engr.

Mo., St. Joseph—Bd. Pub. Wks. passed ordinance to pave portion Clay and 19th St., concrete. C. P. Hoff, City Engr.

Mo., St. Joseph—Board Pub. Wks. passed ordinance to grade portion Cliff, Jefferson, 5th and Poplar St. and alley north Thompson St. C. P. Hoff, City Engr.

Mo., Springfield—City making plans for paving portion Myrtle St. O. D. Crisman, City Engr.

Mo., Stanberry—City soon lets contract for paving. Black & Veatch, Inter-State Bldg., Kansas City, Engr. Noted July 20.

Ark., Ft. Smith—Bd. of Impvr. to issue $16,000 bonds to repave portion 6th St. N. H. Reed, City Engr. Noted Mar. 9.

Ark., Heber Springs—Cleburne County plans 7 mi. roads near Higden to include bridges over Red River, about $15,000. H. R. Carter, Little Rock, Engr. State Highway Dept.

Ark., Marianna—City to spend about $6 000 for macadam paving.

Ark., Texarkana—City plans to pave 3rd, 4th, 5th and other streets, about 360,000 sq.yd., brick. J. P. Kline, Comr.

Tex., Angleton—Brazoria County election Sept. 29 to vote on $150,000 bonds for roads in Brazoria Dist. Address County Clk., Angleton.

Tex., Beaumont—Atchison, Topeka & Santa Fe Ry. to pave streets surrounding railway property, also those on which tracks are laid, about $12,500. C. F. W. Felt, Chicago, Ill., Ch. Engr.

Tex., Bonham—Fannin County, Ector Dist., voted $35,000 road bonds. S. F. Leslie, Bonham, County Judge. Noted May 18.

Tex., Corsicanna—Navarro County sold $100,000 bonds for roads in Dawson Dist. No. 5. Address County Clk., Corsicanna.

Tex., Dallas—City Council petitioned to pave portion of Hood and Brown St. H. Moseley, City Engr.

Tex., Frost—Navarre County, Rd. Dist. No. 4, sold $180,000 road bonds. Address County Clk., Corsicana. Noted July 20.

Tex., Houston—City plans to repave portion Washington Ave. E. E. Sands, City Engr.

Okla., Ardmore—City voted $5 000 street improvement bonds.

Okla., Shawnee—City plans about 30,000 sq yd paving, asphalt or concrete. F. D. Brown, City Engr.

Okla., Woodward—Woodward County to vote on $30,000 road-improvement bonds. Address County Clk., Woodward.

Idaho, Sandpoint—City plans to pave Euclid Ave. to connect with Pine St.

Utah, Ogden—City soon receives bids for paving portion 23rd St. J. M. Tracy, City Engr.

Utah, Salt Lake City—City soon to let contract for paving 3 mi. North Salt Lake Rd., about $93,000, to be borne by city and state. S. Q. Cannon, City Engr.

Wash., Bellingham—City to make plans for paving James St. W. H. North, City Engr.

Wash., Colfax—(Official)—Whitman County rejected bids for grading and paving 11 mi. Permanent Highway No. 12. New bids for grading only will be received Sept. 18. Address County Clk., Colfax. J. M. McCaw, County Engr. Noted Aug. 3.

Wash., Everett—City to make plans for paving and sidewalks on Rucker Ave. S. H. Mumm, Jr., City Engr.

Wash., Montesano—Council passed resolution to pave Main St. G. W. Gauntlett, City Clk.

Wash., Pasco—Franklin County receiving bids Sept. 19 for Permanent Highway Nos. 3 and 5. L. D. Conrad, Pasco, Audr. J. W. Hamilton, County Engr.

Wash., Pomeroy—City making plans for paving number of streets.

Wash., Port Angeles—Council approved plans for paving portion 1st St., concrete. J. L. Beam, City Clk.

Wash., Seattle—Bd. Pub. Wks. approved plans for paving Occidental Ave., about $65,000; concrete walks on West 65th St., $33,000. A. H. Dimock, City Engr.

Ore., Portland—Council plans to pave East Davis and East 16th St., about $15,000. P. H. Dater, City Engr.

Ore., Salem—City plans paving 12th St., concrete. W. Skelton, City Engr.

Calif., Auburn—City sold $25,000 paving bonds. M. H. Wallace, City Clk. Noted July 20.

Calif., Bakersfield—Kern County receiving bids Sept. 5 for portion Bakersfield-McKittrick Highway. Address County Clk., Bakersfield.

Calif., Bakersfield—Kern County receiving bids Oct. 3 for Rio Bravo-Wasco Highway. Address County Clk., Bakersfield.

Calif., Berkeley—Council passed resolution to pave San Pablo Ave., about $45,000. J. J. Jessup, City Engr.

Calif., Fairfield—Solono County receiving bids Sept. 5 for graveling portion road No. 173. Address County Clk., Fairfield.

Calif., Fresno—Fresno County election Oct. 24 to vote on $3,600,000 road bonds. Address County Clk., Fresno. Noted June 22.

Calif., Los Angeles—City plans to grade 9th St. H. Hamlin, City Engr.

Calif., Los Angeles—County made plans for scenic highway in Beverly Hills Dist. Rd. Improvement Dist. No. 126. About $54,200. Address County Clk., Los Angeles.

Calif., Red Bluff — Tehama County receiving bids Sept. 5 for paving Manton Rd., macadam, about ⅜ mi. H. G. Kuhn, Red Bluff, County Clk.

Calif., Santa Paula—Board Supvr. receiving bids Sept. 8 for culverts and 220,000-sq.ft. paving on Main St. and Telegraph Rd.

Calif., Stockton—San Joaquin County receiving bids Sept. 5 for improving about 9 mi. highways. E. D. Graham, Stockton, County Clk.

N. B., Moncton—City soon receives bids for curbing and paving St. George St., macadam. J. Edington, City Engr.

Que., Joliette—Town plans asphalt paving about $4,000. J. A. Martin, Engr.

Ont., London—Council plans paving portion Bathhurst St., brick, $7,124. S. Baker, City Clk.

Ont., Ottawa—Council plans to open and extend Lyon St., about $5,445.

Ont., Port Perry—Council plans expenditure of $25,000 for concrete paving during next 4 years. W. E. Harris, Clk.

Ont., Windsor—Citizens voted by-law for $22,000 concrete sidewalks. M. E. Brian, City Engr.

B. C., New Westminster—Council plans to grade and macadamize portion 7th St., about $4,200.

Bids In and Contracts Awarded

Mass., Agawam—State Highway Comn., Boston, rejected bids for section State Highway in Agawam. Noted July 20.

Mass., Boston—City let contract sidewalks on Belvidere, Scotia and St. Cecilia St., Boston, Stoughton and Corbett St., Dorchester and Florence St., West Roxbury, to J. DOHERTY 133 Calumet St., Roxbury, $6,700. Noted Aug. 17.

Conn., New Britain—(Official)—City to improve Winthrop St. by day labor. W. H. Hall, City Engr. Noted Aug. 17.

Conn., New Haven—City let contract paving portion Norton St. to C. W. BLAKESLEE & SONS.

N. Y., Lockport — City let contract paving Harvey Ave. to STAINTHORPE & CO.

N. Y., New York—(Brooklyn)—(Official)—F. J. Gallagher. 490 Park Pl., only bidder for resurfacing portion Bay Pkway.

N. Y., New York—(Brooklyn)—(Official)—Low bids improving various streets were: J. J. Guinan Contracting Co., 777 Fulton St., 8th St., $4,349; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., 71st St., $9,704, 63rd St., $26,131; Uvalde Asphalt Paving Co., 1 Broadway, East 34th St., $4,919, East 34th St., $4,663, Elmore Pl., $6,243; Borough Asphalt Co., 1301 Metropolitan Ave., Hegeman Ave., $5,457; L. Mangieri, 190 31st St., Dahlgren Pl., $10,754. Noted Aug. 17.

N. Y., New York—(Brooklyn)—(Official)—Borough Asphalt Co. 1301 Metropolitan Ave., low bidder paving portion 85th St.

N. Y., New York—(Queens)—(Official)—Low bidders paving were as follows: Hastings Pavement Co., 24 Broad St., Manhattan, Sherman St., $15,388; Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, 9th Ave., $7,003, 4th Ave., $11,542; E. W. Fitzpatrick, 16th Ave., $4 340, 49th St., $5,738; H. E. Cordes, Clermont Ave., $6,432; Queens Plaza Co., Queens Plaza Court Bldg., Webster Ave., $12,138, other streets, $43,133.

Streets and Roads (Continued)

N. Y., New York—(Richmond)—**(Official)**—Low bids received Aug. 15 for repaving Willow Brook and Port Richmond Rd. from J. Johnson's Sons, 455 Broadway, West New Brighton, S. I., $27,053; J. E. Donovan, $28,224; C. Vanderbilt, $28,923. Noted Aug. 10.

N. Y., New York—(Richmond)—**(Official)**—Uvalde Asphalt Paving Co., 1 Broadway, low bidder improving portion Broadway. Noted Aug. 17.

N. Y., New York—Richmond)—**(Official)**—Borough rejected bids repaving portion New York Ave. Noted Aug. 10.

N. Y., Niagara Falls—City let contract paving Angelo and Walnut St. to McKINNEY-McGUIRE CONSTRUCTION CO., $10,986.

N. Y., Watervliet—Water Board let contract grading and riprapping Cherry Valley and Osborne's Corners Rd., 2 culverts, building bridge abutments and raising wooden bridge to WALKER CONSTRUCTION CO., 90 State St., Albany, $12,295. Noted July 20.

N. J., Boonton—Bd. Chosen Freeholders let contract improving West Main St. to J. GLENNON, $4,085; Washington St., F. HUSK, $4 693; North Main St., P. TELFER. Noted Feb. 24.

N. J., Hackensack—Bd. Freeholders let contract road work to E. C. HUMPHREY, Main St., $11,363.

N. J., Montclair—Bd. Freeholders Essex County let contract improving Valley Rd. STANDARD BITULITHIC CO., 31 Clinton St., Newark. Noted Aug. 3.

N. J., Morristown—Bd Chosen Freeholders let contracts for road improvements as follows: Whippany-Hanover Rd. to MILES, TIGHE CO, about $86,000; Mt. Kemble Ave to OSBORNE, MARSELLIS CO., about $40,000; Morristown-Mendam Rd. to WELDON CONSTRUCTION CO, about $100,000; Port Morris-Netcong Rd. to SALMON BROS., about $31,000. Noted Aug. 24.

N. J., Paterson—Bd. Freeholders Passaic County received low bids improving portion Totowa Rd. from Sowerbut & Harrop, Paterson, $21,555; Francisco Bros., Ridge Rd, Little Falls, $22,021; A. W. Gill, Hackensack, $23,362. Noted Aug. 2.

Penn., Ashley—City let contract repaving Main St. to M. J. MOORE, Sugar Notch. Noted Aug. 3.

Penn., Beaver—**(Official)**—County rejected bids for grading fill on State Highway from Monaca to Aliquippa over Elkhorn River. Noted Aug. 10.

Penn., Beaver—Beaver County let contract paving Bryden Rd. to W. V. BALDWIN.

Penn., Butler—Butler County let contract 4 mi. Butler-Saxonburg Rd, Jefferson Township, to DUSTER CONSTRUCTION CO., Tarentum, $96,498. Noted Aug. 3.

Penn., Lock Haven—(Official)—City rejected bids for paving Henderson and East Main St. Project to be held over until next year. C. E. Oberheim, City Clk. Noted July 27.

Penn., Middletown—State Highway Comn., Hartford, let contract paving South Main St. and Durham Ave. to F. ARRIGONI & BRO., $40,989.

Penn., Monongahela—City let contract paving Union St. to DONORA CONSTRUCTION CO., Donora, $5,844.

Penn., Uniontown—Fayette County let contract paving Balzinger-McClelland Rd., German Township, and Charleston-Schoolhouse Rd., Luzerne Township, to BELL-BOCKEL CO., INC, Altoona, $103,066. Noted Aug. 24.

Penn., Wilkes-Barre—**(Official)**—Luzerne County let contract paving 15,300 sq.yd. Pittston Rd. with "Hastings Asphalt Block" to HERRICK CONSTRUCTION CO., Wilkes-Barre, $44,780.

Penn., Woodlawn—Borough let contract improving Station, Kiehl and Copeland St. and Highland Ave. to J. E. WELLAND CO., Pittsburgh, $2.59 per sq.yd. Noted Aug. 3.

Md., Cumberland—City let contract paving portion Baltimore and Flat St. to KEAN & CLARK, $5,968. Noted Aug. 3.

Md., Cumberland—City let contract paving portion Center St. to SELLS BROS., $8,870.

Md., Towson—Baltimore County let contract 2¼ mi. concrete road to T. B. GALCH & SONS, Raspeburg, $24,500.

W. Va., Clarksburg—City let contract paving and curbing to W. F. ALLEN, Clarksburg, $23,400.

W. Va., Wayne—Wayne County received bids paving Road from Camden Park to new cement bridge at Twelve Pole from F. Ullum, $23,350; C. S. W. Brubaker, $23,900; J. L. Stewart, $23,995.

N. C., Albemarle—**(Official)**—City let contract for about 50,000 or 100,000 sq.yd. paving to ELY CONSTRUCTION CO., Chattanooga, Tenn. Noted Aug. 10.

Ga., Atlanta—City let contract paving Peachtree St. to GULF PAVING CO., Chattanooga, Tenn.

Ala., Bay Minette—Bd. Revenue and Rd. Comrs., Baldwin County, received no bids for portion Delta Highway connecting Baldwin and Mobile Counties Project abandoned Noted July 20.

Ala., Montgomery—Montgomery County let contract to surface 8 mi. road with gravel to JORDAN & PHILLIPS, Snow Hill, $24,500.

Miss., Ellisville—Jones County Comrs. let contract 30-mi. road to J. N. GEORGE & SONS, Baton Rouge, La., 9-mi. road to M. H. THOMASON, D'Lo, Miss.

Miss., Magnolia—Pike County let contract roads in Second Dist. to INLAND CONSTRUCTION CO., Chandler, Okla. Bonds for $130,000 voted for same.

Miss., Pontotic—City let contract curbing guttering and paving to M. T. MAXWELL, Tuscaloosa, Ala., about $60,000.

Miss., Yazoo City—Yazoo County let contract 4 mi. Panther Creek Swamp Highway to C. B. BOX, Midnight, about $32,000.

La., Amite—Tangipahoa County let contract main road north and south to W. H. MILLER, Baton Rouge, 2 cross roads to F. A. ALBEE, Natalbany, $31,000. Noted July 6.

La., New Orleans—State Highway Dept. let contract for Des Allemands-Raceland section New Orleans-Houma Highway Lafourche Parish, to C. M. HALE, New Orleans, about $50,000. Noted July 27.

Tenn., Chattanooga—City let contract repaving portion East 9th St. to SOUTHERN PAVING CONSTRUCTION CO., Chattanooga, $7,780.

Tenn., Chattanooga—City let contracts paving to W. L. DODDS and SMALLWOOD CONSTRUCTION CO., both of Chattanooga.

Tenn., Erwin—Unicoi County let contract 26 mi. road to MAINE CONSTRUCTION CO., Knoxville. Noted Aug. 5.

Ohio, Alliance—City let contract improving Grant St. to J. D. DEVINE, $9,826.

Ohio, Bell Center—City let contract improving Main, Maple and Walnut St. to BREWER, TOMLINSON & BREWER, Chillicothe, $50,000.

Ohio, Cincinnati—**(Official)**—Hamilton County received bids improving portion Dry Run Rd. from J. Funke, $43,628; J. Nickoson, $43,826; R. E. Cash, $43,826. Noted Aug. 3.

Ohio, Findlay—City let contracts as follows: Paving East Front and South Main St., to RINGOLD & SONS; Clinton St. and Paldwin Ave., to H. J HALL & SON.

Ohio, Findlay—City received low bid paving Cory, Larkins and Prospect St. from Johnson Construction Co., Chicago. Noted Feb. 17.

Ohio, Findlay—City let contract paving and curbing Clinton St. to H. J. HALL, Findlay, $7 000.

Ohio, Lakewood—City let contract paving Hopkins Ave. to GOULD & MAYBACH, 823 East 150th St., Cleveland, $6,500.

Ohio, Lakewood—City let contract paving to PACE BROS., grading and sidewalks to B. F. FAY CO.

Ohio, Lima—City let contract paving Elizabeth St. to ANDREWS ASPHALT PAVING CO., Harrison Ave., H. E. ENCK.

Ohio, Lima—City let contracts paving to H. S. SOLOMON, Rive Ave., $16,000; McKIBBEN, JAMESON & BLOSSER, McDonald St., $10,000; ANDREWS ASPHALT PAVING CO., McDonald St., $20 000; BLODGETT & MULLEN, Elm and Bellefontaine Ave., $13,000.

Ohio, Marietta—City let contract paving to CISLER & MORSE, Oakwood Ave., Vine, Poplar, Chestnut and Holly St., $16,461, Harmer and Putnam Ave. and Prospect St., $8,245. Noted Aug. 10.

Ohio, Port Clinton—**(Official)**—County Comrs. let contract highway improvements to C. E. BROUGH, Luckey. About $22,563. Noted Aug 17.

Ohio, Springfield—City let contract paving portion Burnett Rd. to E. F. PAYNE, $5,300.

Ohio, Wapakoneta—**(Official)**—City let contract improving Middle, Johnson, Water and Auglaize St. to H. P. STREICHER CO, Toledo, $33,410. Noted July 13.

Ohio, Washington Court House—City let contract paving North Main St. to ANDREWS ASPHALT PAVING CO., Hamilton, $4,500.

Ind., Columbia City—Whitley County let contract road in Jefferson Township to O. L. JONES. Noted July 13.

Ind., Connersville—**(Official)**—City let contract curbing and guttering Vine and Main St. to CONNER SHERRY, Connersville, about $5,000.

Ind., Crown Point—**(Official)**—County let contract gravel roads in West Creek and Cedar Creek Townships to A. PORTZ, Hammond, $12,197. Noted Aug. 10.

Ind., Gary—City let contract paving 9th Ave. to D. HEINY, 815 Jefferson St., $7,000.

Ind., Goshen—Elkhart County let contract road in Concord and Bangor Townships to W. W. HATCH; Benton Township, NORTHERN CONSTRUCTION CO., Elkhart.

Ind., Knox—Starke County let contracts roads in Davis, Wayne and Railroad Townships to ROGERS & ROBBINS.

Ind., Muncie—**(Official)**—Delaware County let contract stone road in Center Township to J. E. DAVIS, $18,800. Noted Aug. 3.

Mich., Corunna—County Comn. let contract for road in Caledonia Township to FRANK McBRIDGE.

Mich., Detroit—City let contracts paving to DETROIT ASPHALT PAVING CO., Detroit, Dickinson Ave., $24 781, Redding Ave., $19,226, Addison Ave., $10,489, Maple St., $7,224, Catherin St., $4,341.

Mich., Grand Rapids—City let contract paving portion Graham St. to McDERMOTT & COOPER $4,594.

Mich., Grand Rapids—Board Wks. let contract paving portion Union Ave. to KLOOTE & SON $22 563.

Mich., Pontiac—Oakland County let contract mi. road on Saginaw Turnpike to W. CAMPBELL Port Huron, at $4,000 per mi.

Mich., Ypsilanti—City let contract paving portion Foust Ave. to H. VANDERVEEN, Grand Rapids.

Ill., Delavan—City let contract paving to H. K. RHODES, Lincoln, $17,600. Noted May 25.

Ill., Joliet—**(Official)**—City let contract paving several streets to R. F. CONWAY CO., Chicago, $56,474. Noted Aug. 17.

Ill., Peoria—Bd. Local Impvts. let contract paving portion Richmond Ave. to A. D. THOMPSON CO., Peoria, $14,363. Noted Feb. 10.

Ill., Springfield—**(Official)**—State Highway Comn let contracts road work to PUBLIC SERVICE CONSTRUCTION CO., East Peoria, La Salle County, Sect. "E," $17,975, Sec. "G," $21,647, Sect. "H," $17,302; Sect. "H," $16,322; L. A. McKNIGHT, Robinson, Crawford County, Sect. "C," $7,152, Sect. "D," $7,380; C. TAGGERT, Martinsville, Clark County, Sect. "C," $8,177; T. A. GASAWAY, East St. Louis, Montgomery County, Sect. "D," $6,650; GUND-GRAHAM CO., Freeport, Lee County, Sect. "B," $7,919.

Ill., Rockford—Bd. Local Impvr. let contract macadamizing portion North Avon St. to HART & PAGE. Noted June 1.

Ill., Wilmette—Cook County, Chicago, let contract paving portion Sheridan Rd. to J. A. McGARRY & CO., $78,135.

Wis., Milwaukee—Dept. Pub. Wks. let contracts for paving as follows, portion of Clinton and Clybourne St. to WILLIAM T. McGOVERN, about $9,089 and $7,287; portion 35th St. to JOHN WEIHER, about $23,750; portion 31st St to PAUL C. KROLEK, about $4,957; portion Becher St. to WHITE CONSTRUCTION CO., about $11,993; portion Holton St to MILWAUKEE GENERAL CONSTRUCTION CO., about $16,723. Noted Aug. 24.

Wis., Wausau—City let contract paving Scott St. to C. LOTZ, $2.34 per sq.yd. Noted July 27.

Wis., Whitewater—Common Council rejected bids for paving Main and Whitewater St. Noted May 4.

Iowa, Cherokee—City let contract paving to BRYANT ASPHALT PAVING CO, Waterloo.

Iowa, Clinton—City let contract paving 5th and other streets to T. CAREY & SONS, Clinton, $48,816.

Iowa, Creston—City let contract paving to J. HORRABIN & CO., 1422 Walnut St., Des Moines.

Iowa, Dubuque—**(Official)**—City let contract improving North Main St. to N. J. STANER, 1071 Kaufman Ave., 5th St., J. LEE, 17 Almond St.

Iowa, Dubuque—**(Official)**—City let contract improving Heeb St. to M. J. STANER, 1071 Kaufman Ave.

Iowa, Dubuque—**(Official)**—City let contract improving Arlington St. to J. LEE, 17 Almond St.

Iowa, Malvern—Town Council let contract paving to AIKEN & FLUTTER, Corning.

Iowa, Rock Island—Bd. Local Impvr. let contract portion of 26th St. to McCARTHY IMPROVEMENT CO.

Iowa, Spencer—Clay County let contract grading North Iowa Pike, Langdon Rd and portion Dickes-Webb Rd., to R. CONDON, Omaha, Neb.

Minn., Duluth—City let contract paving 13th Ave. to A. A. BODIN & SON, $6,330.

Minn., Duluth—City let contract paving Minnesota Ave. to ROGERS, McLEAN & CO., Duluth, $10,292. Noted Aug. 24.

Kan., Salina—City let contract paving portion Santa Fe Ave. to A. R. YOUNG & CO., Lawrence Noted June 29.

Neb., Omaha—City received low bids grading 37th and Grove St. from J. E. Turner, 29th and Izard St.

Neb., Plattsmouth—City let contract paving to MONARCH ENGINEERING CO., 113 East 17th St., Falls City, $26 200.

Mo., St. Joseph—City let contract improving Boulevard "A" to LAND CONSTRUCTION CO., $26,672.

Ark., Lonoke—County let contract 8½-mi road in Dist. No. 4 to R. MOBELY, Savoy Apt., Argenta. Noted Aug. 24.

Ark., Pine Bluff—Comrs. Sidewalk Dist. No. 16 let contract for paving Cypress St. to R. O. ADAMS & CO. About $38 000 available.

Tex., Austin—Travis County let contract applying tarvia to 11 mi. post highway to FINLEY METHOD CO., San Antonio.

Tex., Pittsburg—Camp County let contract grading 11 mi. road in Precinct No. 1 to N. B. GREGORY. G. W. Keeling, Pittsburg, County Judge. Noted Apr. 13.

Okla., Tulsa—City let contract paving to F. P. McCORMICK, $114,330. Noted May 25.

Streets and Roads (Continued)

Colo., Denver—Denver County let contract 2 mi. Fell River Rd. to H. HOKASANO CONSTRUCTION CO., $10,800.

Colo., Denver—City let contract paving portion West Colfax Ave. to WARREN BROS , Berkeley St., Boston, Mass., $42,500. Noted Nov. 11.

Ariz., Globe—Gila County let contract 8 mi. concrete road between Globe and Miami to TRI-STATA CONCRETE CO., El Paso, $68,700. Noted Aug. 3.

Wash., Dayton—Columbia County let contract hard-surfacing 2 mi. Dayton-Marengo Highway to H. L. WILSON CO., Walla Walla, $7,980.

Wash., Everett—City let contract improving 34th and 35th St. to WARD & TEMPLETON $10,437. Noted Aug. 10.

Wash., Ilwaco—City let contract paving 1st St. to WESTERN PAVING CO., Astoria, $13,906. Noted May 25.

Wash., Pullman—City let contract paving North State St. to WASHINGTON PAVING CO., L. C. Bldg., Seattle, $14,749. Noted July 27.

Wash., Seattle—Br. Pub. Wks. let contract improving 14th Ave , S., to HOLT & JEFFREY, Railway Exchange Bldg., $19,943. Noted Aug. 24.

Calif., Alameda—City let contract paving portion Central Ave. to CLARK & HENERY, Stockton, $66,858. Noted May 18.

Calif., Glendale—City let contract improving Glendale Ave. to E. SCHNELLING, Burnak.

Calif., Hermosa Beach—City let contract improving portion 3rd and other streets to CALIFORNIA-ARIZONA CONSTRUCTION CO., $8,472.

Calif., Los Angeles—City let contract improving Hunter St. to FAIRCHILD-GILMORE-WILTON CO., Los Angeles, $9,314.

Calif., Los Angeles—City let contract improving Harbor Blvd. to FAIRCHILD-GILMORE-WILTON CO., Pacific Electric Bldg., $62,851.

Calif., Monterey—Council let contract resurfacing Lighthouse Rd. Munras Ave., Scott, Polk and Madison St. to E. M. CHADBOURNE, 593 Market St., San Francisco. $9,350.

Calif., Richmond—Council let contract paving to P. SCHNOOR, 5905 Claremont Ave., Oakland, $33,000.

Calif., Riverside—City let contract improving Jurupa Ave. to HIGHWAY CONSTRUCTION CO., $5,101.

Calif., Sacramento—City let contract improving 12th St. to A. TEICHERT & SON.

Calif., San Diego—City let contract improving Oregon St to C. L. HYDE CONSTRUCTION CO., 333 Spreckles Bldg., $10,328.

Calif., San Francisco—Westgate Park Co. let contract for road work to BLANCHARD-BROWN CO., 660 Market St., $300,000.

Calif., San Francisco—City let contract improving McAllister St. to K. ERHART, 660 Market St. $5,441.

Calif., San Francisco—Bd. Pub. Wks. let contract paving portion San Bruno St. to FLINN & TREACY, First National Bank Bldg., $18,370. Noted May 18.

Calif., South San Francisco—City Trustees let contract improving streets to CITY STREET IMPROVEMENT CO., 166 Geary St , San Francisco. About $49,597.

Calif., Stockton—City Council let contract for improving streets to FEDERAL CONSTRUCTION CO , Sharon Bldg., San Francisco. About $39,349.

Calif., Vallejo—City Comn. let contract paving northern district to WORSWOCK CONSTRUCTION CO., about $135,828. Noted Aug. 3.

N. S., New Glasgow—Council let contract paving to FAGE & LUSBY, Amherst.

Ont., Norwich—City let contract brick paving to BRENNAN & HOLLINGSWORTH, Hamilton, about $10,000. Noted July 6.

Ont., Ottawa—City let contract paving Daly Ave. to OTTAWA CONSTRUCTION CO., Central Chambers, about $5,000. Noted July 27.

Ont., Simmins—City let contract sidewalks to ROUTLEY & SUMMERS, Haileybury, $6,000.

Ont., Walkerville—Council let contract paving to MERLO, MERLO & RAY, Tecumseh Rd. Noted July 27.

Ont., Welland—City let contract paving Burgar St. to McRAE & CAMPAIGNE, Niagara Falls, $14,168. Noted May 18.

Ont., Windsor—City let contract concrete walks to MUNICIPAL CONCRETE CO., Ingersoll, $56,500. Noted July 20.

INDUSTRIAL WORKS

Proposed Work

Mass., Boston—M. E & C. E. Wyzanski making plans for 2-story, 25x100-ft. factory to be leased by Philadelphia Storage Battery Co. Monks & Johnson, 78 Devonshire St , Engr.

Mass., Brookline—Cadillac Auto Co. making plans for 4-story, 70x268-ft. storage, sales and office building. A. Danforth, 664 Commonwealth Ave., Boston, Mgr.

Mass., Cambridge—Morey & Co. making plans for 5-story, 50x95-ft. storage building. Monks & Johnson, 78 Devonshire St , Boston, Arch.

Mass., Peabody—A. C. Lawrence Leather Co. plans 7-story brick factory.

R. I., Providence—Paul Whitin Manufacturing Co. plans 4-story, 100x100-ft. addition.

R. I., Providence—Atlantic Mills, Manton Ave., plans 4-story, 35x38-ft. addition.

Conn., Bridgeport—Charles Gregory, 236 Middle St , making plans for 2-story factory. Davis & Dane, Connecticut Mutual Bank Bldg., Arch.

Conn., Willimantic—Watts Laundry Machinery Co. plans addition at West Main and Winter St.

N. Y., Cohoes—Fuld & Hatch Co. plans factory. W. Buck, Mgr.

N. Y., Gowanda—C. Moenh Sons Co. plans 2-story, 80x100-ft. addition. H. L. Moench, Supt.

N. Y., New York—(Bronx)—Liberty Lace and Netting Works, Bronxwood Ave. and 229th St., making plans for 50x200-ft factory and 11x25-ft. dye house at Williamsbridge. About $40,000.

N. Y., New York—(Brooklyn)—F. Veis, 866 De Kalb Ave., made plans for 1-story, 80x275-ft. garage. About $45,000. W. B. Wills, 1181 Myrtle Ave., Arch.

N. Y., New York—(Brooklyn)—(Official)—Alto Building Co., 44 Cort St., receiving bids for 1-story, 127x150-ft. garage on St. Marks Ave. About $60,000. S. Millman & Son, 26 Court St., Arch.

N. Y., New York—(Manhattan)—S. Anarygos & Co., Ave A and 71st St , receiving bids for 6-story, 200x204-ft. concrete and brick factory. About $490,000. G. Knoche, 516 East 72nd St., Arch.

N. Y., New York—(Manhattan)—E. Scott, of Wellesley Realty Corporation, 280 Madison Ave., receiving bids for 6-story, 36x100-ft concrete and brick garage. About $60,000. A. Wallace McCrea Co., 23 East 15th St., Arch.

N. Y., New York—(Manhattan)—Ensign Improvement Co. made plans for 1-story, 110x112-ft. garage. About $30,000. Kreymborg Architectural Co., 1029 East 163rd St , Arch.

N. Y., New York — (Manhattan) — Holland Holding Co. making plans for 12-story, 74x90-ft. factory, store and loft building. About $200,000 F. V. Zobel, 35 West 39th St., Arch.

N. Y., Rochester—Schlegel Manufacturing Co., 277 North Goodman St , made plans for 4-story, 69x69-ft. factory. About $15,000.

N. J., Maurer—Barber Asphalt Paving Co. plans storage building. L. J. Rake, Land Title Bldg., Philadelphia, Secy.

N. J., Newark—American Metal Bed Co. making plans for 4-story, 50x75-ft. factory. About $15,000. N. Myers, Court Theater Bldg , Arch.

Penn., Archbald—Paul Clemens making plans for 3-story, 90x110-ft. silk mill. About $35,000 L. Hancock, Coal Exchange Bldg., Scranton, Arch.

Penn., Elkland—Proctor Ellison Tanning Co. plans 1-story, 65x307-ft storehouse. About $20,000. Pierce & Bickford, 118 Lane St., Elmira, N. Y., Arch.

Penn., Philadelphia—G. T. Bisel, 724 Sanson St., making plans for 5-story addition to storage building. A. H. Savery, Stephen Girard Bldg , Arch.

Penn., Philadelphia—Parkway Baking Co. plans 4-story bakery. G. Conly, 24th and Hamilton St., in charge.

Penn., Philadelphia—Tinius Olsen Testing Machine Co., 12th and Buttonwood St., made plans for 4-story factory.

Penn., Pottstown—National Rubber Co. plans 1-story, 50x110-ft. factory. About $15,000. J. C. Feist, 4th and Hanover St , Pres. and Gen. Mgr.

Penn., Roaring Spring—Roaring Planing Mills Co. soon lets contract for 2-story, 60x200-ft. factory. About $35,000. J. A. Schultz, Mgr.

Del., Wilmington—Wilmington Leather Co. making plans for 6-story, 50x200-ft. factory. About $50,000. J. J. Kennedy, Ford Bldg , Arch.

Md., Ellicott City—G. A Gambrill Manufacturing Co. making plans for 8-story, 45x140-ft. flour mill. About $100,000. A. M. Blinn, 106 Commerce St., Baltimore, Secy.

Va., Bristol—Bristol Chemical Co. plans 3-story addition. J. T. Ray, Damacus, Pres

N. C., Charlotte—J. M. Odell Manufacturing Co. plans to rebuild factory.

S. C., Greenville—Piedmont Packing Co. plans packing plant. About $50,000.

Ga., Dalton—Duane Chair Co. plans factory. About $75,000.

La., New Orleans—Pan-American Ship Building and Salvage Co. plans plant. About $1,000,000.

Ohio, Canton—Summer Creamery Co. plans addition

Ohio, Cincinnati—Enger Motor Co. plans factory.

Ohio, Cincinnati—New Cincinnati Laundry Co. plans plant at McLean Ave and 8th and 9th St., in West End. About $100,000.

Ohio, Cleveland—American Book Binding Co. made plans for factory at 2331 West 110th St. About $35,000.

Ohio, Cleveland—Bondy Manufacturing Co. plans factory. About $25,000.

Ohio, Cleveland—Big Four Tire and Rubber Co. plans 3-story, 88x400-ft factory. About $75,000. W. E. Wingerter, 248 Engineers Bldg., Mgr.

Ohio, Cleveland—Louis A. Katz, 322 Williamson Bldg , made plans for 1-story factory. About $20,000. A. F. Janowitz, Permanent Bldg , Arch.

Ohio, Cleveland—National Acme Manufacturing Co., 7500 Stanton Ave , plans factory.

Ohio, Cold Springs—(Springfield post office)—National Mortar and Supply Co., Second National Bank Bldg , Pittsburgh, plans plant at Cold Springs

Ohio, Columbus—Columbus Forge and Iron Co. plans factory.

Ohio, Columbus—North Columbus Ice Co. plans plant. About $50,000. C. H. Bell, Ashland, interested.

Ohio, Columbus—North Side Lumber Co. plans factory on Fifth Ave.

Ohio, Idlewild—(Cincinnati post office)—Pfau Manufacturing Co., Mentor and Huston Ave., making plans for factory. H Hake, Arch.

Ohio, Lima—Eagy Truck and Storage Co. plans to rebuild factory.

Ohio, Lorain—National Stove Co. plans addition. T. J. Rath, Supt.

Ohio, Sandusky—Way Cleanse Co. plans addition.

Ohio, Youngstown—P. Schoenhofen Brewing Co , 526 West 18th St., Chicago, plans plant at Youngstown. E. H. Hubble, Local Rep.

Ind., Laporte—Laporte Folding Bed and Furniture Co. plans to rebuild plant

Mich., Battle Creek—Postum Cereal Co. making plans for 5-story, 126x126-ft warehouse. M. J. Morehouse, 343 South Dearborn St., Chicago Arch

Mich., Detroit—Silica Brick Co. plans 1- and 2-story, 90x145-ft. factory About $25,000. G. D. Mason, 80 Griswold St , Arch.

Mich., Flint—Chevrolet Motor Co. granted permit for 2-story factory. About $80,000. Noted Oct 28.

Mich., Grand Rapids—Wilson & Wolf granted permit for factory at 200 Ionia Ave., S. W About $40,000

Mich., Grand Rapids—Ionia Floor Board Co making plans for 1-story, 60x100-ft. addition. Wernette-Bradfield & Mead, 441 Houseman Bldg. Arch.

Mich., Grand Rapids—Field Motor Co. plans factory.

Mich., Grand Rapids—Uncheckable Varnish and Enamel Co., Chicago, plans factory at Grand Rapids.

Mich., Lansing—City making plans for 2-story storage building and garage. About $20,000 H. E. Smith, Capitol Bldg , Arch.

Ill., Chicago—Central Manufacturing Dist. plans cold-storage plant. About $300,000. S. Scott Joy, 1118 West 35th St., Arch.

Ill., Chicago—J. S. Kirk Soap Co. making plans for 8-story, 150x280-ft. factory. R. E. Pingrey, 209 South La Salle St., Arch.

Ill., New Baden—Steinlage Sanitary Milk Co plans creamery and ice plant. About $30,000. J. G. Steinlage, Pres.

Ill., Moline—Velie Engineering Co. plans factory on 25th St. About $50,000.

Wis., North Milwaukee—J. Greenebaum Tanning Co. plans 2-story, 55x141-ft. addition on Hampton Ave. Herbst & Hufschmidt, Arch.

Wis., Oconto—W. E. Williams Co., Traverse, Mich., made plans for factory at Oconto.

Wis., Plymouth—Keil Woodenware Co. plans factory.

Wis., Sheboygan Falls—Falls Machinery Co making plans for factory. About $60,000. A. C. Clas, Colby Abbott Bldg., Milwaukee, Arch. Noted Aug. 17.

Wis., West Allis—Allis-Chalmers Manufacturing Co , 57th and Greenfield Ave., making plans addition. Klug & Smith, Mack Blk., Milwaukee, Engr.

Iowa, Davenport—Moline, Rock Island Manufacturing Co. plans 2-story rein.-con. factory. About $55,000.

Iowa, Des Moines—Flynn Dairy Co. plans 2-story, 51x110-ft. rein.-con. building at 7th St and University Ave. About $75,000.

Iowa, Ft. Madison—American Fork and Hoe Co. made plans for factory. Owens & Paysen, 713 Scarritt Bldg , Kansas City, Mo., Arch.

Minn., St. Paul—Capital City Milling and Grain Co. plans 50x96-ft. elevator at 241 South Robert St W. E. Coles, Jr., Pres.

Minn., St. Paul—Coffin Box and Lumber Co. plans 2-story warehouse. About $20,000. J. F. Ferguson, Pelham and Wabash Ave., Secy.

Minn., St. Paul—Federal Grain and Elevator Co. plans elevator. About $150,000.

Kan., Hutchinson—W. Baker making plans for 2-story bakery. About $25,000. Mann & Gerow, Arch.

Kan., Hutchinson—V. T. Miller, Ness City, making plans for 1-story, 65x206-ft. factory at Hutchinson. Mann & Gerow, Hutchinson, Arch.

N. D., Menoken—Menoken Farmers Co-operative Association plans grain elevator. About $10,000.

Mont., Sappington—Crago Water Lifter Co. plans factory.

Mo., St. Louis—Burdeau Real Estate Co. granted permit for 2-story shop and office building. About $40,000.

Mo., St. Louis—See item under "Miscellaneous."

Tex., Galveston—Exporters Warehouse Co. plans addition

Tex., Haskell—Haskell County Mill and Elevator Co. plans flour mill.

Idaho, Pocatello—Cudahy Packing Co., 111 West Monroe St., Chicago, plans packing plant at Pocatello. About $250,000.

Industrial Works (Continued)

Calif., Los Angeles—Globe Grain and Milling Co. plans plant. About $175,000. W. E. Keller, Pres.

B. C., New Westminster—C. A. Bourne plans single plant. About $35,000.

Bids In and Contracts Awarded

Maine, Waterville—Hollingsworth & Whitney Co., Winslow, let contract addition to PROCTOR & BOWIE, Winslow. Noted Aug. 10.

Mass., Boston—(South Boston)—Hunt-Spiller Manufacturing Corporation, 383 Dorchester Ave., let contract foundry to C. A. DODGE CO., Cambridge. About $11,000.

Mass., Fall River—U. S. Bobbin and Shuttle Co., Cambridge St., let contract 3-story addition to PULESTON & McDOUGAL, Bay St.

Mass., Worcester—Packard Motor Car Co., Boston, let contract 2-story, brick and concrete garage at Shensbury and Atchison St., to CENTRAL BUILDING CO., 58 Front St. About $90,000. Noted July 6.

R. I., Central Falls—Hemphill Manufacturing Co. let contract 2-story addition to HUMES CONSTRUCTION CO., 76 Dorrance St., Providence.

R. I., Cranston—(Providence post offive)—Universal Winding Co., 95 South St., Boston, Mass., let contract factory at Cranston to C. I. BIGNEY CONSTRUCTION CO, INC., 898 Westminster St., Providence. About $25,000.

R. I., East Providence—Abrasive Machine Tool Co let contract 1-story factory to NOEL LAVOIE, 698 Warren Ave. About $25,000.

R. I., Pawtucket—Jenckes Spinning Co. will build 4-story, 103x123-ft. storage house by day labor. About $35,000. Noted Mar. 30.

R. I., Pawtucket—Woodlawn Finishing Co., Esten Ave., let contract 2-story, 90x108-ft bleach and dye house to C. I. BIGNEY CONSTRUCTION CO., 898 Westminster St., Providence.

R. I., Providence—H. Priest, 105 Howell St., let contract 2-story storehouse to F. G. ROWLEY CO., 260 Central Ave., Pawtucket, $10,000.

Conn., Ansonia—American Brass Co. let contract factory on Bridge St. to H. WALES LINES CO., Meriden. About $40,000.

Conn., Hartford—City let contract refrigerating plant and boiler house to F. D. KENT, 557 Albany Ave.

Conn., South Windham—Smith & Winchester Manufacturing Co. let contract 1-story addition to H. WALES LINES CO., 134 State St., Meriden. About $10,000. Noted Apr. 13.

Conn., Willimantic—American Thread Co. let contract 2-story factory to ABERTHAW CONSTRUCTION CO., 27 School St., Boston, Mass. About $100,000.

N. Y., Buffalo—Central Elevator Co let contract addition to MONARCH ENGINEERING CO., Chamber of Commerce Bldg.

N. Y., Buffalo—Keystone Warehouse Co, Seneca and Hamburg Co., let contract 1-story, 149x300-ft. freight house on city ship canal at South Michigan Ave. to W. BETTENDORF, 191 Glenwood Ave.

N. Y., Buffalo—Peerless Hucker Co. let contract 1-story, 85x165-ft. addition to BUTLER MILLS, 875 Elliott Sq. About $11,000.

N. Y., Lockport—Lockport Glass Co. let contract 2-story, 60x400-ft. factory to W. BOYSER, 151 Baynes St., Buffalo. About $50,000. Noted July 27.

N. Y., New York—(Brooklyn)—R. M. Comey Co. let contract 3-story, 100x128-ft. factory to JOHN AUER & SONS, 648 Lexington Ave. About $45,000.

N. Y., New York—(Manhattan)—C. Vorndran, 412 East 147th St., let contract 1-story garage to G. HOFFMAN, 1071 Washington Ave. About $20,000.

N. Y., New York—(Queens)—Packard Motor Car Co, Broadway and 61st St., Manhattan, let contract 8-story, 70x270-ft addition to service station to E. L. SCHEIDENHELM, 111 Monroe St., Chicago. Noted June 15.

N. Y., Niagara Falls—Niagara Electro Chemical Co. will build 3-story, 100x200-ft. storage building by day labor. About $50,000. Noted July 27.

N. Y., Rome—Rome Manufacturing Co let contract 1-story, 40x156-ft. factory to PARRY & JONES, Front St. About $15,000.

N. Y., Rome—Rome Wire Co. will build 1-story addition by day labor. About $50,000.

Penn., Chester—Robert Howarth Sons let contract 1-story, 70x110-ft factory to W. WARD, 631 Morton Ave. About $15,000.

Penn., Lancaster—Watson Manufacturing Co. let contract 1-story factory to S H. BALLY, 514 South Shippen St. About $50,000.

Penn., Marcus Hook—United Refrigerating and Manufacturing Co. let contract factory to W. W. LINDSAY & CO., Harrison Bldg, Philadelphia. About $119,000

Penn., Philadelphia—Philadelphia Storage Battery Co let contract 2-story, 100x320-ft. factory to STEWART BROS., 2526 North Orkney St. About $45,000

Penn., Philadelnhia—Monarch Machinery Co. let contract machine shop and warehouse to JACOB MYERS SONS CO

Penn., Pottstown—Nagle Steel Co. let contract 40x120-ft. addition to L. F. SHOEMAKER & CO., Pottstown.

Penn., Saegerstown—Venango Milling Co. let contract factory to W. G. HARPER, Merchants Bank Bldg., Meadville.

Penn., Scranton—Scranton Flour and Grain Co. let contract 3-story, 40x103-ft. warehouse to ROLAND BROS., 425 Spruce St.

Del., Wilmington—Wilmington Leather Co. let contract 2-story, 32x149-ft. addition to JOYCE & KERRIGAN, 1822 West 8th St. About $10,000.

W. Va., Moundsville—United Zinc Smelting Corporation let contract plant to J. E. MOSS IRON WORKS, Wheeling. About $1,500,000. Noted July 13.

Tenn., Memphis—Van Vleet—Mansfield Drug Co., Main St., let contract 7-story warehouse to J. ALEXANDER CONSTRUCTION CO., Auction and Front St. About $175,000. Noted June 22.

Ky., Lexington—Leggett & Myers Tobacco Co. let contract 3-story, 150x200-ft. redrying plant to COMPS LUMBER CO. About $25,000.

Ky., Lexington—Lexington Herald let contract 5-story newspaper plant to COMPS LUMBER CO. About $100,000.

Ohio, Alliance—Woods Engineering Co. let contract addition on North Park Ave. to E. B. SILVER.

Ohio, Cleveland—Abbott-Detroit Auto Co., 9 Central Park W., New York, let contract factory to CROWELL-LUNDOFF-LITTLE CO, 1951 East 57th St., Cleveland. About $150,000. Noted Aug. 24.

Ohio, Cleveland—Cleveland Provision Co. let contract 4-story abbatoir to WEST LAKE CONSTRUCTION CO., St. Louis, Mo. About $150,000. Noted July 20.

Ohio, Cleveland—C. C. Parsons & Co., 8006 Carnegie Ave, let contract warehouse and garage to MINNICK-GIBBONS CONSTRUCTION CO., 5309 Prospect Ave. About $16,000. Noted Aug. 17.

Ohio, Columbus—Columbus Bread Co. let contract 1-story, 110x200-ft. bakery to E K. HIBBS, 735 Columbus Savings and Trust Bldg. About $25,000. Noted Aug. 24.

Ohio, East Liverpool—Adamant Porcelain Co. let contract 2-story addition to POTTERS LUMBER CO. About $15,000. Noted Apr. 27.

Ohio, Mansfield—Cotter Storage Co., East 4th and Walnut St., let contract 5-story, 40x90-ft. warehouse and office building to A. E. HANCOCK. About $40,000. Noted Apr. 6.

Ohio, St. Bernard—Chicago Mill and Box Co. let contract 2-story factory to W. MILLER & SON, 2023 Elm St, Cincinnati. About $25,000.

Ohio, Toledo—Haughton Elevator and Machine Co. let contract factory and office building to A. BENTLEY & SONS CO., 201 Belmont St. About $125,000. Noted June 1.

Ind., Ft. Wayne—National Motor Vehicle Co., 22nd St., let contract 3-story addition to BEDFORD STONE AND CONSTRUCTION CO., 810 Fletcher Trust Bldg.

Ind., Grasselli—(East Chicago post office)—Grasselli Chemical Co. let contract 1-story addition to SAMUEL AUSTIN CO., 14230 Euclid Ave., Chicago. About $40,000.

Ind., Indianapolis—W. Lynn & Co., 120 North Davidson St., let contract, 2-story, 36x76-ft. warehouse to W. M. FONTAINE, 314 North State Ave. About $15,000. Noted June 1.

Ind., Indianapolis—Fairbanks Morse Electric Manufacturing Co. let contract 1-story factory to WOLF & EWING CONSTRUCTION CO., 810 Hume Mansur Bldg About $20,000.

Mich., Battle Creek—Kellogg Toasted Corn Flake Co. will build addition to warehouse by day labor. Noted May 11.

Mich., Detroit—Kelsey Wheel Co. let contract 1-story, 140x160-ft. addition to A J. SMITH CONSTRUCTION CO., 18 Campau Bldg.

Mich., Detroit—Swepe & Froelich, 331 Orleans St, let contract 2-story factory to MACLEAN BUILDING CO., 92 Broadway Ave. About $12,000.

Mich., Detroit—Michigan Nut and Bolt Works, Meldrum Ave., let contract factory to JACKSON MAURICE CONSTRUCTION CO., 1931 Fort Bldg.

Mich., Detroit—Pringle Furniture Co., 121 Gratiot Ave., let contract 7-story, 66x94-ft. warehouse to BRYANT & DETWILER, 2336 Dime Bank Bldg. About $70,000.

Mich., Grosse Point—C. H. Haberkorn let contract garage and residence to MERCHANTS CONSTRUCTION CO., Buhl Blk. About $50,000.

Mich., Highland Park—Maxwell Motor Car Co. let contract 1-story, 130x320-ft addition assembling plant to A. J. SMITH CONSTRUCTION CO., 18 Campau Bldg., Detroit.

Ill., Chicago—W. E. Olson, 14 South Lafayette St., let contract masonry 6-story brick factory at 1508 West Monroe St to P. LOTZ, 56 East Randolph St. About $65,000.

Ill., Chicago—United Drug Co. let contract 4-story warehouse to E W. SPROUL CO., 1120 West 35th St, Chicago. About $50,000.

Ill., Chicago—Central Trust Co., 125 West Monroe St., let contract 1-story, 58x108-ft. warehouse to J. MAIGH & SON, 140 South Dearborn St About $12,000

Ill., Chicago—Cribben & Sexton Co., 680 North Sacramento Blvd, let contract masonry 1-story factory to D. PUVOGEL, 935 Dakin St. About $18,000.

Wis., Burlington—H. Agner will build 1-story, 60x165-ft. garage on Dyer St. by day labor. About $20,000. Noted June 22.

Wis., Fond du Lac—Session Ice Cream Co. let contract 3-story factory at West Johnson and Bannister St. to HUTTER CONSTRUCTION CO About $20,000. Noted June 29.

Wis., Fond du Lac—Fond du Lac Church Furniture Co. let contract, 3-story, 80x96-ft. warehouse and factory to IMMEL CONSTRUCTION CO., 200 North Main St. Noted June 8.

Wis., Fond du Lac—Sanitary Refrigerator Co. let contract 1st unit of plant, 4-story, 96x106-ft., to IMMEL CONSTRUCTION CO., Fond du Lac

Wis., Port Edwards—Nekoosa-Edwards Paper Co. let contract 2-story warehouse to NORTHWESTERN BRIDGE AND IRON CO., Milwaukee. Noted July 27.

Iowa, Mason City—Northern Sugar Corporation let contract refinery to LARROWE CONSTRUCTION CO., 1199 Woodward Ave., Detroit About $500,000.

Neb., Lincoln—Ewart Grain Co., 616 First National Bank Bldg., let contract elevator to A. W. WARD, 2500 Garfield St. About $30,000.

Mont., Missoula—Great Western Sugar Co. let contract plant to DYER CO, 2031 Euclid Ave., Cleveland, Ohio. About $1,250,000. Noted July 6.

Mo., St. Louis—Sylvester Realty Co. let contract 2-story, 109x131-ft. factory to A. H. HAESELER, 105 North 7th St. About $20,000. Noted Aug. 17.

Colo., Brighton—Great Western Sugar Co. let contract plant to LARROWE CONSTRUCTION CO., Detroit, Mich. About $1,500,000. Noted July 20.

Calif., San Francisco—Zellerbach Paper Co. let contract 6-story, rein-con. factory and warehouse at Francisco and Montgomery St. to MacDONALD & KAHN, Rialto Bldg., $150,000. Noted June 22.

FEDERAL GOVERNMENT WORK

Proposed Work

N. Y., West Point—Stable—Office Quartermaster, West Point, receiving bids Sept. 20 for fireproof construction in artillery stable. (See adv.)

D. C., Washington—Lanterns—U. S. Dept. of Agriculture, Washington, receiving bids Sept. 20 for storm-warning lanterns. (See adv.)

Va., Norfolk—Removal of Barge—U. S. Engineer Office, Custom House, Norfolk, receiving bids Sept. 22 for removal of steel whaleback barge "Ivie," sunk in Hampton Roads, Va. (See adv. Aug. 24 issue.)

W. Va., Huntington—Post Office—J. A. Wetmore, Acting Superv. Arch, Treas. Dept., Washington, D. C., receiving bids Oct. 3 for addition.

N. C., Salisbury—Building—Depot Quartermaster's Office, U. S. Army, Washington, D. C., receiving bids Sept. 5.

La., New Orleans—Rock—U. S. Engineer Office, Queen and Crescent Bldg., New Orleans, receiving bids Sept. 20, 52,000 tons.

Tenn., Memphis—Cement—Mississippi River Comn., U. S. Engr. Office, Custom House, Memphis, receiving bids Sept. 7, about 50,000 sacks

Tenn., Memphis—Levee Work—Mississippi River Comn., U. S. Engr. Office, Custom House, Memphis, receiving bids Sept. 5.

Tenn., Memphis—Oak and Pine Lumber—Mississippi River Comn., U. S. Engr. Office, Custom House, Memphis, receiving bids Sept. 11, about 493,000 ft. pine and 10,000 ft. oak lumber.

Tenn., Nashville—Locks—U. S. Engineer Office, Nashville, receiving bids Sept. 28 for concrete locks E and F, Cumberland River. (See adv.)

Mich., Detroit—Mail Handling Devices—Treasury Dept, Office Superv. Arch, Washington, D. C., receiving bids Oct. 16, in U. S. post office and courthouse at Detroitt. J. A. Wetmore, Act. Superv. Arch.

Wyo., Ft. Laramie—Canal Work—Bids received Sept. 28 at office of U. S. Reclamation Serv., Ft. Laramie. A. P. Davis, Ch. Engr.

Mont., Malta—Reclamation—U. S. Reclamation Service, Malta, receiving bids Sept. 27 for structures on Milk River Project. A. P. Davis, Ch. Engr. (See adv. Aug. 24 issue.)

Colo., Denver—Needle Valves—U. S. Reclamation Service, Denver, receiving bids Sept. 20 for needle valves for North Tunnel of Roosevelt Dam, Salt River Project. A. P. Davis, Ch. Engr. (See adv. Aug. 24 issue.)

Calif., San Pedro—Cement, etc.—U. S. Engineer Office, 7233 Central Bldg., Los Angeles, receiving bids Sept. 15 for American portland cement, sand and stone at San Pedro.

Panama—Miscelaneous Supplies—Bids received Sept. 14 at office of General Purchasing Officer, Panama Canal, Washington, D. C.

Panama—Miscellaneous Supplies—Bids received at Office of General Purchasing Officer, Panama Canal, Washington, D. C., Sept. 18.

Bids In and Contracts Awarded

Maine, Ft. Williams—Buildings—Forgione & Romano Co, Fidelity Bldg, Portland, $7,419, submitted lowest bid for 1 double set non-commissioned officers quarters. Noted July 27.

Maine, Rumford—Post Office—Bids received Aug. 11 from Newport Contracting and Engineering Co, Newport News, Va., $53,700; W. H

Federal Government Work (Continued)

Fissell & Co., Marbridge Bldg., New York, $54,800; T. F. Morreau & Co., Lewiston, $57,296. Noted July 27.

Mass., Gloucester—Retaining Basin—Low bidder, Fisheries Station, W. L. Miller Co., Boston, $6,989. Noted Aug. 3.

N. Y., Buffalo—Buildings—U. S. Engr. Office, Buffalo, received low bids Aug. 21, Black Rock Harbor, from W. S. Crooker, 120 Fordham Dr., $158,289; Durolithic Co, 460 Ellicott Sq., $164,613; J. W. Cowper Co., Inc., Fidelity Bldg., $172,103. Noted July 27.

La., New Orleans—Sheet Pile Bulkhead—Lighthouse Inspector let contract, New Canal light house, to J. E. HEMENWAY, New Orleans, $13,200. Noted July 20.

Mont., Malta—Earthwork—U. S. Reclamation Service received bid Aug. 14, Nelson Reservoir, South Canal, Milk River Project, from J. O'Connor and J. T. Whalin, Malta, $108,352. A. P. Davis, Ch. Engr. Noted July 20.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., Albany—Barge Canal Work—F. M. Williams, State Engr., made plans for river walls and excavation work for Barge Canal Harbor, Contract No. 59.

Minn., Minneapolis—Dredging—City plans, Lake Nokomis. About $8,00. F. W. Cappelin, City Engr.

Ark., Texarkana—(Official)—Drainage — Bids received in November for 14 mi. ditches. About $45,000. Christain & Ayres, Texarkana, Engr. Noted Aug. 3.

Tex., Ft. Stockton—Irrigation—Leon Springs Irrigation Co. granted permission to divert 7,540 acre-ft. of water annually from Leon Creek Valley to irrigation 3,017 acres in Pecos County. Noted Mar. 30.

Tex., Snyder—Irrigation—W. F. Thompson plans irrigation pumping plant.

Calif., Hanford—Irrigation — Kings County plans to irrigate and reclaim 262,000 acres in Tulare Lake Basin. About $6,000,000.

Calif., Herald—Irrigation—E. R. Walker promoting reorganization of irrigation district, 40,000 acres.

Bids In and Contracts Awarded

Mass., Oak Bluffs—Dredging—Harbor and Land Comn. rejected bids for dredging Lake Anthony.

Mass., Wellfleet—Dredging—Harbor and Land Comn., Boston, rejected bids for dredging Herring River.

Mich., Mason—Drainage—County Drain Comn: let contract Mud Creek Drain to J. A. ELLISON, $27,124.

Iowa. Ft. Madison—Drainage—Bids received for Green Bay Drainage Dist. from G. A. McWilliams Co., 332 South Michigan Ave., Chicago, $284,000, and T. H. Kinser Co., St. Louis, $199,000. A. P. Meyer, Ft. Madison, County Audr. Noted Aug. 3.

Iowa, Mason City—Drainage—County let contract Drainage Dist. No. 26 to N. PAULSON, Thornton, $20,372. Noted Feb. 3.

Iowa, Waterloo—Drainage—Contract draining Dist. No. 5, East Waterloo Township, let to ANDERSON & EMPLE, Marshalltown, $14,850.

MISCELLANEOUS

Proposed Work

Conn., South Manchester—Fire House—South Manchester Fire Dept. plans brick and stone fire house for Hose and Ladder Co. No. 4.

N. Y., New York—(Bronx)—Filling—Park Bd., Municipal Bldg., Manhattan, receiving bids Sept. 7 for filling swamp lands, southerly portion Van Cortlandt Park.

N. Y., New York—(Brooklyn)—Comfort Station—Park Bd., Municipal Bldg., Manhattan, receiving bids Sept. 7, Ft. Hamilton Park. Noted Mar. 2.

N. Y., New York—(Manhattan)—Station Finish—Pub. Ser. Comn. for First Dist., 120 Broadway, receiving bids Sept. 13 for 3 stations on Broadway-Fourth Ave. rapid Transit R R.

N. Y., New York—(Brooklyn)—Subsurface Railroad—Pub. Ser. Comn. for First Dist., 120 Broadway, Manhattan, receiving bids Sept. 13 for Section No. 1-B, Route No. 12, part of Broadway-Fourth Avenue Rapid Transit Railroad.

N. Y., New York—(Manhattan)—Frogs and Switches—Pub. Ser. Comn. for First Dist., 120 Broadway, receiving bids Sept. 8 for 4 portions special work for rapid-transit railroad, Pelham Line subway.

N. Y., New York—(Manhattan)—Track Installation—Pub. Ser. Comn. for First Dist., 120 Broadway, receiving bids Sept. 8 for installation of tracks for 7th Ave. branch of Seventh Ave.-Lexington Ave. Rapid Transit R.R., boroughs of Manhattan and Brooklyn.

N. J., Bridgeton—Market House—W. Venezky made plans, 2-story, 63x64-ft., North Pearl St. About $15,000. Custer & Seltzer, 3rd and Market St., Camden, Arch.

N. J., Westfield—(Official)—Park Improvements—Board Park Comrs. receiving bids Sept. 13. C. H. Van Doren, Secy. (See adv. Aug. 24 issue.) Noted July 27.

Penn., Bristol—Fire House—Goodwill Fire Co. No. 3 plans, 2-story. About $6,000. S. Milner, Linden St., Pres.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

N. H., Manchester—New England Telephone and Telegraph Co. making plans for 4-story building at Vine and Concord St.

Mass., Boston—(Mattapan)—School—City making plans for addition. About $89,000. J. E. McLaughlin, 88 Tremont St., Boston, Arch.

Mass., Brockton—Labor Lyceum Association plans 4-story, 56x90-ft. brick building at Crescent and Otis St. About $60,000.

N. Y., New York—(Manhattan)—Loft and Store—B. Moore Estate made plans, 12-story, 50x98-ft., brick, limestone and terra cotta at 549 West 23rd St. P. C. Hunter, 191 9th Ave., Arch.

N. Y., New York—(Manhattan)—Steinway & Sons made plans for 6- and 10-story studio, office and sales building at 109 West 57th St. About $300,000. W. K. Benedict, 527 5th Ave., Assoc. Arch.

N. Y., New York—(Manhattan)—Office—O. K. Dimock, 399 Park Ave., plans. 50x80-ft. Cross & Cross, 10 East 47th St., Arch.

N. Y., New York—(Manhattan)—Theater—W. Fox, 126 West 46th St., plans, 14th St.

N. Y., New York—(Manhattan)—Loft—R. A. Scott of Wellesley Realty Corporation, 483 West End Ave., receiving bids, 5-story, 25x100-ft., brick and limestone, 27 West 49th St. About $90 000. A. Mertin, 34 West 28th St., Arch.

N. Y., New York—(Manhattan)—School—C. B. J. Snyder, Supt. School Bldg., receiving bids Sept. 11 for Manhattan Trade School, Lexington Ave. and 22nd St. About $60,000.

N. Y., Rochester—High School—Board Education plans, Exposition Park. About $300,000.

Penn., Erie—Depot—New York Central R.R. making plans, 14th and Sassafras St. About $450,000. D. C. Moon, Cleveland, Gen. Mgr. Noted Mar. 2.

Penn., Philadelphia — Church — Germantown Christian Church plans. About, $200,000.

Penn., Pittsburgh—Church—Russian Orthodox Catholic Church plans. About $100,000. J. Bergeson 135 West 126th St., New York, Arch.

Ga., Atlanta—Sanitarium—State House appropriated $200,000 for addition to State Sanitarium for Insane.

Ga., Augusta—Bank—Union Savings Bank making plans. About $50,000. R. H. Hunt, Chattanooga, Tenn., Arch.

Tenn., Memphis—Store and Office—A. Boyd made plans, 6-story, rein.-con., Madison Ave. and Maiden Lane. About $50,000. Hanker & Cairns, Arch.

Tenn., Memphis—Hospital—Baptist Memorial Hospital made plans, 7-story addition. About $100,000. J. Gaisford, Arch.

Ohio, Cleveland—Church—Second Church of Christ made plans, Euclid Ave. and East 77th St. About $200,000. F. W. Striebinger, 1900 Euclid Ave., Arch. Noted June 8.

Ohio, Dayton—Hospital—Joint Bd. County Comrs, Montgomery and Preble Counties, receiving bids Sept. 7 for tuberculosis hospital. H. W. German, Schwind Bldg., Arch.

Ohio. Norwood—School—City voted $150,000 for addition to Williams Ave. school.

Ill., Rock Island—Allouez Council, Knights of Columbus, plans building at 7th Ave. and 18th St. About $60,000.

Wis., Milwaukee—Club House—Milwaukee Athletic Club, Broadway and Mason St., made plans. About $700,000.

Wis., Milwaukee—School—Bd. Education making plans, Greenbush Ave. and Chase St. About $90,000.

Minn., Minneapolis—Schools—Bd. Education plans. About $5,525,769.

Minn., St. Paul—Hospital—Clarence Johnson, Capital Bank Bldg, retained to make plans for St. Joseph Hospital. About $400,000.

Minn., St. Paul—Hospital—St. Josephs Hospital plans. About $400,000. C. Johnston, Arch.

Bids In and Contracts Awarded

Maine, Lewiston—Station—Maine Central Railroad Co. let contract to F. W. CUNNINGHAM & SON, Portland.

Mass., Lowell—School—City let contract addition to D. WALKER, 229 Dutton St. About $42,526.

Mass., Worcester—Police Station—Supt. Pub. Bldg. let contract to J. J. POWER, Worcester. About $200,000.

Conn., New Haven—Yale School of Music let contract 3-story building to H. WALES LINES CO., Meriden, $137,500.

N. Y., New York—(Manhattan)—Hotel McAlpin Hotel, 46 West 34th St., let contract, 23-story addition, to THOMPSON STARRETT CO., 49 Wall St. About $1,000,000.

N. Y., Rensselaer—School—W. S. Hamil Construction Co, Troy, $73,241, submitted lowest bid. Noted Apr. 13.

N. Y., Rochester—Armory and Stable—Troop H, First Cavalry, N. G. N. Y., let contract, brick and stone, to R. T. FORD & CO., 206 South Ave. About $150,000.

N. Y., Schenectady—Store—Carl Co., 428 State St., let contract, 2-story, to BROWN & LOWE CO., 111 Foster Ave. About $100,000. Noted June 1.

N. J., Dover—High School—Board Education rejected bids received Aug. 16. About $90,000.

N. J., Ridgewood—High School—King Lumber Co., Charlottesville Va., $219,700 submitted lowest bid. Noted July 27.

N. J., Union—Office—Aaron Birnbaum let contract, 6-story, Union St. and Bergenline Ave., to GERMANIA CONSTRUCTION CO., 15th St., Hoboken. About $50,000.

N. J., West Hoboken—Bank and Office—National Bank of North Hudson, Inc, let contract, 2-story brick, Summit Ave. and De Mott St., to G. H. DECKER, West Hoboken. About $50,000.

Penn., Coudersport—High School—City let contract to FINN & CO., Altoona, $51,850.

Penn., Harrisburg—Synagogue—Contract Chisuk Emuna Synagogue, 6th and Forster St., let to J. F. BARNHARDT, Enola. About $50,000.

Md., Baltimore—Church—St. Bernard's Church let contract, Gorsuch Ave., to J. J. O'CONNOR, 1110 Park Ave. About $125,000.

D. C., Washington—Hotel—Harrington Hotel let contract, 12-story, 74x75-ft. addition, to BOYLE-ROBERTSON CONSTRUCTION CO., Evans Bldg.

Va., Roanoke—School—School Bd. let contract to J. F. BARBOUR & SONS, Roanoke, $57,964.

W. Va., Richwood—School—Bd. Education, Richwood Independent Dist., let contract J. A. TINCHER, Richwood. About $40,000.

Ga., Augusta—School—Bd. Education let contract Houghton School to PALMER-SPIVEY CONSTRUCTION CO., Augusta, $55,984. Noted July 27.

Ohio, Fremont—Hospital—Sandusky County Memorial Hospital Association let contract, 3-story, to STEINLE CONSTRUCTION CO., Fremont. About $70,000. Noted Feb. 24.

Ohio, Springfield—Odd Fellows let contract 2 buildings at home to S. E. OFTEL, Toledo. About $80,000

Mich., Jackson—School—Board Education let contract, 3-story, 140x268-ft., to DYKE-JONKMAN CONSTRUCTION CO., Holland. About $200,000. Noted July 20.

Ill., Streator—School—Bd. Education rejected bids received Aug. 2, Sherman School, Dist. 45. P. Saunders, Secy. Noted July 27.

Wis., Eau Claire—Hospital—Luther Hospital let contract to HOEPPNER BARTLETT CO., Eau Claire, $59,000. Noted July 27.

Wis., Grand Rapids—Passenger and Freight Depot—Minneapolis, St. Paul & Sault St. Marie Ry. let contract to W. A. HANSEN CONSTRUCTION CO., Chippewa Falls. About $45,000.

Wis., Platteville—Platteville State Normal School let contract agricultural, physical and manual-training annex to J. P. CULLEN CONSTRUCTION CO., Janesville, $43,073. Noted July 13.

Iowa, Muscatine—High School—Logan Bros., Clinton, $58,500 submitted lowest bid, 3-story, 78x125-ft. addition. Noted June 22.

Minn., Tofte—School—School Dist. No. 7 let contract to E. NORNSTEDT, Grand Maris. Noted Aug. 3.

Kan., Parsons—Hotel—H. E. Brown let contract, 4-story, to J. W. PRINCE, Parsons.

Neb., Tekamah—Court House—Burt County let contract to F. P. GOULD & SON. About $75,000. Noted Aug. 10.

Mont., Anaconda—Scott, Wharton & Metcalf Co. let contract 7-story building to SOUND CONSTRUCTION CO., Seattle, Wash.

Mont., Three Forks—School—School Dist. No. 24 let contract, Gallatin and Broadwater St., to D. M. ANDERSON, $40,000.

Mo., Joplin—Christman Dry Goods Co. let contract 5-story steel and concrete building to BANE & HAFFMAN CONSTRUCTION CO., Joplin. About $100,000. Noted May 25.

Mo., St. Louis—Store—Finance and Mortgage Co. let contract, 14-story, 8th and Olive St., to JOHN HILL CONSTRUCTION CO. About $650,000.

Tex., Dallas—Bank—City National Bank let contract, 2-story, to H. J. CURTIS. About $100,000. Noted Aug. 10.

Wash., Seattle—Church—Fourth Church of Christ, Scientist, let contract 1st unit, 8th and Senaca St., to NEIL McDONALD, Northern Bank Bldg., Seattle. About $100,000.

Calif., Berkeley—College—Regents of University of California let contract, 4-story, Class A, to SOUND CONSTRUCTION AND ENGINEERING CO., Hearst Bldg., S. F., $106,485.

Calif., Los Angeles—Hospital Service Building—Los Angeles County let contract, 5-story, Class A, to LOS ANGELES PLANING MILL CO., Industrial and Mill St., $54,745. Noted Feb. 10.

Calif., San Francisco—Store and Office—Southern Pacific Co. let contract, 10-story, Class A. to LINDGREN CO., Monadnock Bldg., S. F. About $1,750,000.

Sask., Yorkton—School—Ruthenian Sisters let contract, rein.-con., to LOGAN & BLACK, Laurier St. About $50,000.

SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until Sept. 18, 1916.

State Highway Work

OFFICE OF THE STATE COMMISSION
OF HIGHWAYS,
Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster St., Albany, N. Y., at 1 o'clock p.m. on Monday, the 18th day of September, 1916, for the construction and repair of the following highways, in the following counties:

Albany—one contract (surface treatment); Broome—one contract (surfacing) 2 highways (6.93; 5.35); Chenango—approx. length 1.30; Columbia—approx. length 7.14; Delaware—approx. length 6.51; Erie—3 highways, 3.54, 0.91, 5.10; Livingston—approx. length 1.47; Monroe—approx. length 0.11; Montgomery—4 highways, 2.49, 2.70, 1.61, 3.70; Nassau—approx. length 2.99; Niagara—approx. length 0.61; Onondaga—one contract (resurfacing); Otsego—approx. length 1.04; Putnam—approx. length 3.42; Rensselaer—approx. length 6.34; Saratoga—aprox. length 3.73; Schenectady—approx. length 5.62; Seneca—approx. length 2.13; Sullivan—one contract (resurfacing); Westchester—3 highways, 2.15, 1.09, 4.62.

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineers in whose division the roads are to be improved or repaired. The addresses of the Division Engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "General Information for Bidders" in the itemized proposal, specifications and contract agreement.

EDWIN DUFFEY, Commissioner.
I. J. MORRIS, Secretary.

⁂

Bids received until Sept. 6, 1916.

Sewer

Bridgeport, Conn.

Sealed proposals will be received at Room No. 22, City Hall, until 2 o'clock P.M., Wednesday, Sept. 6th, 1916, by the Paving and Sewer Commission of the City of Bridgeport, Connecticut, for the construction of about 9,400 feet of 60", 66" and 72" sewer in Railroad and Bostwick Avenues in said City.

Plans and specifications can be obtained from Alfred H. Terry, City Engineer, on payment of $2.00.

The work is divided into three sections. Each section will be considered as a bid by itself unless expressly stated otherwise in the proposal. A certified check in the amount of 5% of the estimated cost of the work must accompany each bid. A bidding bond will not be accepted in place of a certified check.

The Commission reserves the right to reject any or all proposals.

BERNARD KEATING,
Secretary of said Commission.

⁂

Steam Shovel and Drag Line Work to Sub-Let

To sublet—320,000 cubic yards of steam-shovel and dragline work.

Address JOHN A. O'CONNOR,
100 State St., Albany, N. Y.

Bids received until Sept. 5, 1916.

State Highway Work

STATE OF MARYLAND,
STATE ROADS COMMISSION,
601 Garrett Building,
Baltimore, Md.

NOTICE TO CONTRACTORS.

Sealed Proposals for building 4 sections of State Highway aggregating about 9.74 miles in length, as follows:

Contract No. B-26—
BALTIMORE COUNTY:

One section along the Liberty Road from Harrisonville to the Old Court Road, about 3.33 miles in length. (Macadam Resurfacing, Oil Bound.)

Contract No. B-28—

One section along the Reisterstown Road from Reisterstown to the Carroll County Line. (Macadam Resurfacing, Oil Bound.) 2.56 miles in length.

Contract No. K-8—
KENT COUNTY:

One section from Chestertown toward Fairlee, about 2.13 miles in length. (Concrete or Macadam, Class C.)

Contract No. M-15—
MONTGOMERY COUNTY:

One section from Dawsonville to the Buck Lodge Road, about 1.72 miles in length (Concrete or Macadam, Class C.) will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 5th day of September, 1916, at which time and place they will be publicly opened and read.

Bids must be made upon the blank form contained in the book of specifications. Specifications and plans will be furnished by the Commission upon application and cash payment of $1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred ($500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission, this 17th day of August, 1916.

FRANK H. ZOUCK, Chairman.
CLYDE H. WILSON, Secretary.

⁂

Bids received until Sept. 7, 1916.

Sewer

Rockford, Ill., Aug. 23, 1916.

Sealed proposals will be received until 1:30 o'clock P.M., September 7, 1916, at the office of the president of the Board of Local Improvements of the City of Rockford, Illinois, for laying a sewer on Greenwood Avenue, Rural Street and the Highland District. Estimated quantities are as follows: 10,592 feet of 9-inch pipe; 1,190 feet of 10-inch pipe; 1,306 feet of 12-inch pipe; 1,445 feet of 15-inch pipe; and 1,190 feet of 18-inch pipe.

Plans and specifications will be furnished upon application to the City Engineer of the City of Rockford.

W. W. BENNETT,
President of Board of Local
Improvements.

Bids received until Sept. 5, 1916.

The Anchlote River Bridge

Clearwater, Fla.

Sealed proposals addressed to the Board of County Commissioners of Pinellas County, Florida, and endorsed "Proposals for the Construction of the Anchlote River Bridge," will be received until twelve o'clock noon on the 5th day of September, 1916, and at that time will be publicly opened and read.

This work includes the erection and construction of a Scherzer Rolling Lift Bridge, clear roadway 16 feet and 57 ft. span c. c. bearings, two reinforced-concrete approaches of two twin spans each, 16 ft. clear roadway and 43 feet clear span.

Bids will be compared on the basis of the lump sum bid, ten yards of concrete, 2,000 lbs. extra steel and 200 lineal feet extra piling. In the lump sum bid bidders will include all royalties.

Each bid must be accompanied by a certified check on a Pinellas County Bank for one thousand dollars ($1,000.00) payable to the Board of County Commissioners of Pinellas County, Florida.

Plans, specifications, forms of contract, proposal and bond may be seen in the offices of The J. B. McCrary Co., Engineers, Atlanta, Ga., Third National Bank Building, and the office of the Board of County Commissioners, Courthouse, Clearwater, Florida.

The Board reserves the right to reject any or all proposals.

C. W. WIECKING,
Clerk of the Board of County Commissioners of Pinellas County, Florida.
By B. H. McMULLEN,
Deputy Clerk.

⁂

Bids received until Sept. 12, 1916.

Indestructible Road Signs

Borough of Richmond, N. Y. C.

The President of the Borough of Richmond will receive bids for approximately 930 indestructible road signs until September 12th, 1916, at 12 o'clock M. Bidders are requested to furnish sample of sign, together with price for the same. Samples to be furnished at the office of the President of the Borough and the signs of the successful bidder to be delivered to the storeyard at DuBois Avenue, West New Brighton, S. I.

The sign adopted by the President of the Borough shall be complete so far as lettering, shop work for field riveting and the necessary bolts and attachments complete.

Further information may be had upon application at the office of the President of the Borough of Richmond.

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Bids received until Sept. 6, 1916.

Concrete Highway

Georgetown, Del.

Proposals for the construction of Sections 5 and 6 of the Coleman du Pont Road will be received at the Engineer's Office, Georgetown, Delaware, up to 1 o'clock P.M., Wednesday, September 6, 1916.

Plans may be seen and specifications and blank form of proposal may be obtained at the office of the Engineer, Georgetown, Delaware.

Construction News

CONSTRUCTION WORK PROVIDED FOR IN NAVAL APPROPRIATION BILL

Much attention has been paid by the press to the unusually large appropriations carried by the Naval Bill signed by the President on Aug. 29, but it is perhaps not realized that a large sum is set aside by the Bill for the permanent improvement of the various Navy Yards and Stations. Outside of the construction of vessels the largest single item is $11,000,000 for an armor plant at a site not yet fixed of which necessarily a large part will be spent for construction and equipment of buildings. The projectile plant, $705,611, and the experimental laboratory, $1,500,000, both of which will be situated in all probability in Washington involve a great deal of construction work, but as yet no plans have been made. The same comment applies to the unprecedented appropriation of $6,000,000 which is placed at the disposal of the Secretary for improving and equipping the navy yards at Puget Sound, Philadelphia, Norfolk, New York, Boston, Portsmouth and Charleston, for the construction of vessels.

It is estimated by the Bureau of Yards and Docks, which will have charge of all the construction work under the Navy Bill, that approximately $22,000,000 will be expended for such work. Of this amount $8,350,875 covers public works specifically appropriated for the construction of which the Bureau of Yards and Docks is now making plans. It is the intention to have all of this amount contracted for within the next six months, most of it within three.

Taking the projects up by each Navy Yard, the construction work planned is as follows, with approximate time when the advertisement will be issued:

Boston, air compressor plant, $37,500, advertisement in about a month.

New York, paving, $10,000, to be advertised immediately, and general distributing system, $15,000, advertisement during October.

Philadelphia, dry dock, limit of cost, $3,500,000, of which $500,000 is made available at once, to be advertised for in about six weeks; dredging, $25,000, advertisement before January; and as soon as the land necessary can be condemned an addition to the Marine Quartermaster Depot on South Broad St., costing $175,000.

Washington, storage building, $65,000, advertisement in three months, and at a later date a gun shop building, to cost $600,000, upon land not yet procured.

Norfolk, dry dock, similar to the one at Philadelphia, and to cost the same amount, plans practically finished and ready to advertise, and a structural shop to cost eventually $1,000,000, bids for part of which were opened Sept. 2.

Charleston, dredging Cooper River, approach to the Navy Yard, $175,000.

Pensacola, $420,000 is appropriated to cover the repairs necessary to buildings and equipment on account of the recent storms, of which $250,000 will be used for new piers, advertisement about December.

New Orleans, $150,000 is appropriated for similar repairs.

Mare Island, erecting shop, $70,000, advertisement in about six weeks; a 250-ton floating crane, to cost $600,000, for which plans are now finished, advertisement to be issued immediately; dredging, $50,000.

Newport Torpedo Station, quarters, $105,000, and sea wall, $50,000, both to be advertised for in about three months.

A further sum of $280,000 is appropriated for construction of various storehouses and smaller buildings at the Navy Yards and Stations, for which plans are practically ready, advertisements to be issued separately within the next few months.

The Bureau of Yards and Docks will also have charge of any building work incidental to the work of other bureaus, for example in connection with the $3,500,000 appropriation for aircraft, and the amount appropriated for ordnance, smokeless powder and ammunition.

BUILDING OPERATIONS FOR AUGUST

Following is a list of contracts awarded, published by the F. W. Dodge Company:

Throughout the states of New England, New York, New Jersey, Pennsylvania, Maryland, Delaware, District of Columbia, Virginia, Ohio, West Virginia, Illinois, Indiana, Iowa, Wisconsin, Michigan, Minnesota, North and South Dakota, and portions of Missouri and Eastern Kansas,

Jan. 1 to Sept. 1, 1916	$838,024,922
1915	598,619,600
1914	531,915,200
1913	616,067,000
1912	558,820,000
1911	539,256,313
1910	589,175,910

Contracts awarded from New York State and Northern New Jersey,

Jan. 1 to Sept. 1, 1916	$145,085,500
1915	101,629,000
1914	91,632,000
1913	196,256,000
1912	169,247,000
1911	165,930,000
1910	180,359,500

These figures show throughout the entire territory covered by this company an increase of $222,000,000 over the next highest year, which is 1913, but the figures do not show as well for the territory of New York State and northern New Jersey, as the years from 1910 to 1913 all had more contracts awarded than in 1916. Contracts awarded in the entire territory for August amounted to $142,019,617 against $114,421,660 for July, or an increase of about $28,000,000 over the previous month. In the smaller territory of New York and northern Jersey the contracts awarded amounted to $40,948,000 against $29,215,000 in July, or an increase of almost $12,000,000.

IRON AND STEEL

Cast-Iron Pipe—The following are prices per net ton for carload lots:

	New York	Birmingham	Chicago	St. Louis	San Francisco
4 in.	$33.50	$28.00	$33.50	$34.00	$45.60
6 in. and over	30.50	25.00	30.50	31.00	42.60

Gas pipe in 16-ft. lengths are $1 per ton extra.

Pig Iron—Below are the present quotations, with a comparison of a month and a year ago:

CINCINNATI	Sept. 7, 1916	One Month Ago	One Year Ago
No. 2 Southern foundry	$16.90	$16.90@17.90	$13.90@14.40
No. 2 Northern foundry	19.26	19.76@20.26	16.26@16.51
NEW YORK			
No. 2X Northern foundry	19.50@19.75	19.75@20.25	15.50@15.75
No. 2 plain Northern foundry	19.25@19.50	19.50@20.00	15.25@15.50
No. 2 Southern foundry†	19.25@19.75	19.50@20.00	15.75@16.00
BIRMINGHAM			
No. 2 Southern foundry	14.00	14.00	11.00@11.50
CHICAGO			
No. 2 Northern foundry	18.00	19.00	13.50@14.00
PITTSBURGH			
Bessemer iron*	21.95	21.95	16.45
Basic iron*	18.95	18.95	15.45

*These prices include the freight charge from the valley to the Pittsburgh district. †Delivered tidewater, New York.

Track Supplies—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	Pittsburgh				
	Sept. 7, 1916	One Year Ago	Chicago	St. Louis	San Francisco
Standard railroad spikes	$2.65@2.70	$1.60	$3.25	$3.25	$4.60
Track bolts	3.25@3.50	1.90@2.00	4.05	Premium	5.15
Standard section angle bars	2.00	....	....	Premium	2.95@3.05

Structural Material—The following are the base prices f.o.b. mill, Pittsburgh, together with the quotations per 100 lb. from warehouses at the places named:

	Pittsburgh	St. Louis	New York	Chicago	San Francisco
Beams, 3 to 15 in.	$2.60@2.75	$3.15	$3.25	$3.10	$4.55
Channels, 3 to 15 in.	2.60@2.75	3.15	3.25	3.10	4.55
Angles, 3 to 6 in., ¼ in. thick	2.60@2.75	3.15	3.25	3.10	4.55
Tees, 3 in. and larger	2.60@2.75	3.15	3.30	3.10	4.55
Plates	3.50@4.00	3.55	4.00	3.50	5.05

Extras on other shapes and sizes in cents per lb. are as follows:

I-beams over 15 in.	.10
H-beams over 18 in.	.10
Angles over 6 in., on one or both legs	.10
Angles, 3 in. on one or both legs less than ¼ in. thick	.70
Tees, structural sizes (except elevator, handrail, car truck and conductor rail)	.05
Channels and tees, under 3 in. wide	.20 to .80
Handrail tees	.75
Cutting to lengths, under 3 ft. to 2 ft inclusive	.25
Cutting to lengths, under 2 ft. to 1 ft. inclusive	.50
Cutting to lengths, under 1 ft.	1.55

No charge is made for cutting to lengths 3 ft. and over.

Old Material—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis and vicinity, the quotations are per net ton and cover delivery at the buyer's works, including frenght transfer charges:

	New York		
	Sept. 7, 1916	One Month Ago	One Year Ago
Heavy melting steel scrap	$11.75@12.00	$12.00@12.25	$12.00@12.25
No. 1 railroad wrought	18.50@18.75	18.00@18.50	13.50@14.00
Stove plate	11.50@12.00	12.00@12.25	9.75@10.00
No. 1 machinery cast	16.00@16.50	16.00@16.25	12.75@13.00
Machine shop turnings	4.25@ 4.50	4.50@ 5.00	7.50@ 7.75
Cast borings	6.75@ 7.00	7.50@ 7.75	....
Railroad malleable cast	12.00@12.50	12.25	....

	Chicago		
	Sept. 7, 1916	One Month Ago	One Year Ago
No. 1 railroad wrought	$15.50@16.00	$15.25@15.75	$11.00@11.50
Stove plate	9.25@ 9.75	9.25@ 9.75	....
No. 1 machinery cast	11.50@12.00	11.50@12.00	....
Machine shop turnings	5.50@ 6.00	5.50@ 6.00	....
Cast borings	6.25@ 6.75	6.00@ 6.50	....
Railroad malleable cast	11.25@11.75	11.25@11.75	10.50@11.00

	St. Louis	
	Sept. 7, 1916	One Month Ago
Heavy melting steel scrap	$15.50@16.00*	$14.50@15.00
No. 1 railroad wrought	15.75@16.25†	15.00@15.50
Stove plate	9.00@ 9.50†	7.50@ 8.00
No. 1 machinery cast	11.25@11.75†	10.25@10.75
Machine shop turnings	7.25@ 7.75†	6.25@ 6.75
Cast borings	6.75@ 7.00†	5.75@ 6.25
Railroad malleable cast	11.00@11.50†	10.50@11.00

*Gross ton. †Per net ton.

Steel Rails—The following quotations are per 100 lb. f.o.b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh Sept. 7, 1916	Chicago Sept. 7, 1916
Standard bessemer rails	$33.00	$33.00
Standard openhearth rails	35.00	35.00
Light rails, 8 to 10 lb.	50.00	43.00
Light rails, 12 to 14 lb.	49.00	42.00
Light rails, 25 to 45 lb	47.00	40.00

Bars, Concrete Reinforcing—The following quotations are per 100 lb.:

	Mill Shipment	Warehouse: New York, Sept. 7, 1916	Warehouse: New York, One Month Ago	Warehouse: St. Louis	Warehouse: Chicago	Warehouse: San Francisco
¾ and larger	$2.60	$3.25	$3 25	$3.24	$3.10	$4.00
⅝	2.65	3.35	3.35	3.29	3.18	4.10
½	2.70	3.40	3.40	3.34	3.23	4.20
⅜	2.85	3.65	3.65	3 49	3.40	4.50
¼	3.10	4.00	4.00	3 74	3.75	5.00

Steel Sheet Piling—The following price is base per 100 lb. f.o.b. Pittsburgh, with a comparison of a month and a year ago:

Sept. 7, 1916	One Month Ago	One Year Ago
$2.50@2 60	$2.50	$1.55@1.60

Nails—The following quotations are per keg from warehouse:

	New York	St Louis	Chicago	San Francisco
Wire	$3.15	$3.05	$2.95	$3.50
Cut	3.15	2 95	2.95	3.85

Pipe—The following discounts are for carload lots f.o.b. Pittsburgh:

Steel: Inches	Black	Galvanized	Iron: Inches	Black	Galvanized
Butt Weld					
¾ to 3	70%	55½%	¾ to 1½	60%	43%
Lap Weld					
2	65%	50½%	1¼	48%	31%
2½ to 6	65%	53½%	1½	54%	38%
7 to 12	65%	49½%	2	55%	39%
13 and 16	63½%	....	2½ to 4	57%	42%
15	51%	....	4½ to 6	57%	42%
			7 to 12	56%	41%
Butt Weld, Extra Strong Plain Ends					
¾ to 1½	68%	54½%	¾ to 1½	56%	41%
2 to 3	69%	55½%			
Lap Weld, Extra Strong Plain Ends					
2	63%	49½%	1¼	50%	33%
2½ to 4	66%	52½%	1½	55%	39%
4½ to 6	65%	51½%	2	57%	42%
7 to 8	61%	45½%	2¼ to 4	59%	45%
9 to 12	56%	40½%	4½ to 6	58%	44%
			7 to 8	52½%	38%
			9 to 12	47%	33%

From warehouses at the places named the following discounts hold for steel pipe:

	Black: New York	Black: Chicago	Black: St. Louis
¾ to 3 in. butt welded	61%	63.8%	63.64%
3½ to 6 in. lap welded	64%	65.8%	63 64%
7 to 12 in. lap welded	55%	60.8%	60.64%

	Galvanized: New York	Galvanized: Chicago	Galvanized: St. Louis
¾ to 3 in. butt welded	41%	48 8%	43.14%
3½ to 6 in. lap welded	47%	50.8%	43.14%
7 to 12 in. lap welded	29%	44.8%	39.14%

Sheets—Quotations are in cents per pound in various cities from warehouse, also the base quotation from mill:

	Large Lots, Pittsburgh	St. Louis	Chicago	San Francisco	New York
Blue Annealed					
No. 10	3.00@3.25	3.45	3.25	5.00	4.25
No 12	3.05@3.00	3.50	3 30	5.05	4 30
No 14	3.10@3.35	3 55	3.35	5.10	4 35
Black					
Nos. 18 and 20	2.70@2.85	3.10	3.00	4.75	3.45
Nos. 22 and 24	2.75@2.90	3.15	3.05	4.80	3 50
No. 26	2 80@2.95	3.20	3.10	4 85	3.55
No. 27	2.85@3.00	3.25	3.15	4.90	3 60
No. 28	2.90@3.05	3.30	3.20	4.95	3.65
Galvanized					
No 10	3.15@3.25	5.30	4 70	5.19	...
No 12	3.25@3.35	5.30	4.70	5.24	4.10
No. 14	3.25@3.35	5.30	4.70	5.24	4.10
Nos. 18 and 20	3 50@3.60	5.30	4.90	5 54	4.40
Nos. 22 and 24	3.60@3.70	5.40	5.05	5 68	4.55
No. 26	3.75@3.85	5.40	5.20	5.83	4.70
No 27	4.00@4.10	5.40	5 35	5.98	4.85
No. 28	4.15@4.25	5.40	5.50	6.12	5.00

Chain—Quotations below are per 100 lb.:

In.	New York: Sept. 7, 1916	New York: One Year Ago	Chicago	San Francisco
3/16	$10.10	$7 50	$9.40	$13.50
¼	7.55	4.95	6.85	9.75
5/16	6.55	3 95	5.85	8.50
⅜	6.00	3.40	5.30	8.00
7/16	5.80	3.20	5 15	7.75
½ and 9/16	5.60	3.00	5 00	7.50
⅝ and 11/16	5.50	2.90	4.90	7.50
¾ and 13/16	5.40	2.80	4 80	7.25
⅞ and 15/16	5.30	2 70	...	7.10
1 to 1¼	5.20	2.60	...	7.00

EXTRAS TO ABOVE LIST PER 100 LB.

	For BB	For BBB
3/16 in. and ¼ in.	$1.50	$2.00
5/16 in. and larger	1.25	1.75

Rivets—The following quotations are per 100 lb.:

	Mill, Pittsburgh	Warehouse: New York	Warehouse: Chicago	Warehouse: St. Louis	Warehouse: San Francisco
Structural					
¾ and larger	$4 00	$5.25	$3.75	$4.05	$5.40
Cone Head Boiler					
¾ in. and larger	4.10	5 35	3.85	4.15	5.50
⅝ and 11/16	4.25	5.50	4.00	4.30	5.65
½ and 9/16	4.60	5.85	4.50	4.65	6.00

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 and 2 in. take an extra of 25c.

Triangle Mesh—Price per 100 sq.ft. for 4 in-mesh in carload lots:

Style No.	Cross-Sec. Area per Ft. Width	Plain: New York	Plain: St. Louis	Plain: Chicago	Plain: San Francisco	Galvanized: New York	Galvanized: St. Louis	Galvanized: San Francisco
4	0.102	$1.53	$1.58	$1.728	$2.01	$1 74	$1.80	$2.22
5	0.077	1.21	1.25	1 361	1.59	1.38	1.42	1.75
6	0.058	.96	.99	1.082	1 31	1.09	1.13	1.34
7	0.041	.75	.77	.847	1.03	.85	.88	1.11
23	0 170	2.56	2.65	2.89	3.27	2 92	3.01	3.63
24	0.142	2.20	2.29	2.545	2.82	2.51	2.60	3.13
25	0.124	1.95	2.03	2.204	2 51	2.23	2 30	2.79
26	0.110	1.76	1.85	2 008	2.31	2.03	2.10	2.56
27	0.085	1.46	1.51	1.65	1.91	1.66	1.72	2 11
28	0.066	1.21	1.25	1.324	1.59	1.38	1.42	1.76
29	0 049	.99	1.04	.972	1 35	1.13	1.18	1.49
31	0.261	3.76	3.91	5.245	4.80	4.29	4.44	5.33
32	0.225	3.27	3.39	4.726	4.18	3 73	3.85	4 64
33	0.196	2.91	3.02	3 484	3.71	3.32	3.43	4.12
34	0.140	2.24	2.32	2.562	2 88	2.55	2.64	3.19
35	0.109	1.78	1.85	2.001	2.31	2.03	2.10	2.56
36	0 075	1.31	1.37	1.342	1.72	1.50	1.55	1 91
38	0.380	5.36	5.57	6.067	6.77	6.12	6.32	7.52
39	0.325	4.62	4.80	5.824	5 85	5.27	5.45	6.50
40	0.283	4.05	4.20	5 462	5.12	4.62	4.77	5.69
41	0.208	3.13	3.21	4.533	3.96	3.52	3.65	4.40
42	0.151	2.34	2.44	2.654	3.03	2.67	2.77	3.37
43	0.101	1.67	1.73	1.992	2 19	1.90	1.97	2.42

Less than carload lots this material is about 10% higher.

Wire Rope—Discounts from list price on bright and galvanized are as follows:

	New York	St. Louis	Chicago	San Francisco
Galvanized	25—2½%	25—2½%	25—2½%	22½%
Bright	35—2½%	40—2½%	30—2½%	32½%

At this rate the net prices in New York for galvanized, 7 wires to strand, are as follows per 100 lb.:

Diameter, In.		Diameter, In.	
½	$4.40	1¼	$18 30
⅝	5 90	1⅜	20 80
¾	6 60	1½	25.60
⅞	9.50	1⅝	27.80
1	11.00	1¾	32 20

Expanded Metal Lath—Prices per 100 yd. for painted are as follows to contractors:

Gage	Weight	Carload: New York	Carload: Chicago	Carload: St. Louis	Carload: San Francisco
27	233	$18 00	....	$18.00	$16.00
26	250	19.00	$17.50	19.00	17.25
25	300	20.00	18.50	....	18.75
24	340	21.00	19.50	21.00	20 00
22	450	24.00	22.00	....	23 50

About 10% additional for smaller quantities. For galvanized, New York, add $8, and $5 for tuncan. Chicago, galvanized add $10, and $3 for tuncan San Francisco, galvanized add $10, and $4.50 for tuncan About 200% add in St. Louis for galvanized.

Freight Rates—On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

Baltimore	15.40	Minneapolis	32.90
Boston	18.90	New Orleans	30.70
Buffalo	11.60	New York	16.90
Chicago	18 90	Pacific Coast (all rail)	65 00
Cincinnati	15.80	Philadelphia	15 90
Cleveland	10.50	St. Louis	23.60
Denver	68.60	St. Paul	32.90
Kansas City	43.60		

CEMENT, BRICK AND STONE

Portland Cement—These prices are for barrels in carload lots in cotton bags; 10c. allowed for return of each bag:

	Sept. 7, 1916	One Month Ago	One Year Ago
New York	$1.72	$1.72	$1.57
Jersey City	1.66	1.66	1 51
Boston	1.92	1.92	1.72
Chicago	1 86	1.86	1.56
Pittsburgh	1.81	1.81	1.56
Cleveland	1.94	1.94	1.69
Detroit	1.90	1 90	1.65
Indianapolis	1.99	1.99	....
Toledo	1.99	1.99	....
Milwaukee	1 98	1.98	....
Minneapolis	2.13	2.13	1.83
Duluth	2.06	2.06	1.86
Peoria	1.94	1.94	....
Cedar Rapids	2 05	2.05	....
Davenport	1.95	1.95	....
St. Louis	1.85	1.85	....
San Francisco	2.30	2.30	....

Crushed Stone—Price for cargo or carload lots is as follows:

	1½ In.	¾ In.	
New York	$0.90	$0.95@1.00	cu.yd
Chicago	.95	.95	cu.yd
St. Louis	1.00	1.00	cu.yd
San Francisco	1.25	1.25	cu.yd

Curbing—Prices per linear foot are as follows:

New York	5x16	$0.40
	5x20	.45
Chicago	6x18	.45
St. Louis	5x16	.70
San Francisco	5x16	.75
	5x20	.85

Brick—The price per 1,000 in cargo or carload lots is as follows:

	Common	Paving
New York	$7.25	block $26.50 brick 17.25
Chicago	7.00	15.00
St. Louis, salmon	6.50	
St. Louis, selected	9.50	block 17.00
San Francisco	10.00	block 33.00

Sand and Gravel—Price for cargo or carload lots is as follows:

	Gravel			
	Paving	1½ In.	¾ In.	Sand
New York	$1.25	$1.00	$1.10	$0.50 per cu.yd.
Chicago	....	1.15	1.15	1.15 per cu.yd.
St. Louis	....	.70	.70	.60 per cu.yd.
San Francisco	....	1.25	1.25	1.20 per cu.yd

Paving Stone—

New York	Manhattan	$2.40 sq yd.
	Other boroughs	2.20 sq yd.
Chicago	About 4x8x5 dressed	2.15 sq.yd.
	About 4x8x5 common	1.65 sq.yd.
San Francisco	Basalt block 4x7x8	58.00 per M

Flagging—

New York	Bronx	$0 17 sq.ft.
	Manhattan	.17 sq.ft.
	Queens 5 ft. square	.18 sq.ft.
Chicago	18 in. wide	.60 lin.ft.

MISCELLANEOUS

Railway Ties—For fair-size orders, the following prices per tie hold:

	Material	7 In. by 9 In. by 8 ft. 6 In.	6 In. by 8 In. by 8 Ft.
New York	Yellow Pine	$1.05	$0.90
St. Louis	White Oak	.72	.61
Chicago	White Oak	.90	.80
San Francisco	Long Fir	.76	.51
San Francisco	Creosoted	1.34	.90

Lumber—Price per M in carload lots:

Square Edge and Sound Green

Southern Pine—New York:

	20 Ft. and Under	22-24 Ft.	26 Ft.	28 Ft.	30 Ft.	32 Ft.
3x 4 to 8x 8	$26.50	$27.50	$28.50	$28.50	$29.50	$29.50
3x10 to 10x10	27.50	28.50	29.50	29.50	30.50	30.50
3x12 to 12x12	31 00	32.00	33.00	33.00	34 00	34.00
3x14 to 6x14	33.00	34.00	35.00	35.00	36.00	36.00
7x14 to 14x14	33.00	34.00	35.00	35.00	36.00	36.00
3x16 to 6x16	35.00	36.00	38.00	38.00	40.00	40.00
7x16 to 16x16	35.00	36 00	38.00	38.00	40.00	40.00
3x18 to 8x18	38.00	39.00	41.00	41.00	43.00	43.00
9x18 to 18x18	38.00	39.00	41.00	41.00	43.00	43.00
4x20 to 20x20	41.00	42.00	44.00	44.00	46.00	46.00

Southern Pine—St. Louis:

	20 Ft. and Under	22-24 Ft.	26 Ft.	28 Ft.	30 Ft.	32 Ft.
3x 4 to 8x 8	$21.50	$22.50	$24.25	$24 28	$26.00	$26.00
3x10 to 10x10	22.50	23.50	25.25	25.25	27.00	27.00
3x12 to 12x12	24.00	25.00	26.50	26.50	28 50	28.50
3x14 to 6x14	25.00	26.00	27.50	27.50	29 50	29 50
7x14 to 14x14	25.00	26.00	27.50	27.50	29.50	29.50
3x16 to 6x16	27.00	28.00	29.50	29 50	31.50	31.50
7x16 to 16x16	27.00	28.00	29 50	29 50	31.50	31.50
3x18 to 8x18	29.00	30.00	32 00	32.00	24 00	34.00
8x18 to 18x18	29.00	30.00	32.00	32.00	24 00	34.00
4x20 to 20x20	31.25	32.25	34.25	36.25	36 25	36 25

Over 32 ft—Add $1 for each additional 2 ft in length up to 40 ft. for sizes 12x12 and under; for sizes over 12x12 add $2. For merchantable add $2 to sizes 10x10 and under. For prime add $2 to the price of merchantable for all sizes.

Rough Douglas Fir, No 1 Common—More than carload lots in San Francisco:

Size in Inches	15 Ft and Under	16 to 24 Ft.	25 to 32 Ft.
3 and 4x4	$14 50	$15.59	$16.31
3 and 4x6 and 8	14.50	14.86	15.59
6x6 to 8x8	14.86	15.59	17 04
3 and 4x10	14.50	15.59	16.31
6 and 8x10	15.22	15.95	15.95
10x10	15.22	15.22	16.67
3 and 4x12	14.50	15.59	16.31
6 and 8x12	15.59	16.31	16.31
10 and 12x12	15.22	15.22	16 67
3 and 4x14	15.22	16.67	17.40
6 and 8x14	16.31	17.04	17.04
7 and 9x14	17 04	17.76	17.76
10 and 12x14	15 22	15.22	17 40
14x14	15.22	15.22	16.67
3 and 4x16	15.95	17.76	18.49
6 and 8x16	17.40	18.12	18.12
7 and 9x16	18.12	18.85	18.85
10 and 12x16	16.67	16 67	18 12
14 and 16x16	15.22	15.22	16.67
3 and 4x18	16.67	18.85	20.30
6 and 8x18	17.76	19.57	19.57
7 and 9x18	18.49	20.30	20.30
10 and 12x18	17.40	17 40	18 85
14 and 16x18	15.95	15 95	17.40
18x18	16.67	16.67	18.12
3 and 4x20	15.95	19.94	21.39
6 and 8x20	19.21	21.02	21.02
10 and 12x20	18.12	18.12	19 57
14 and 16x20	16 67	16.67	18.12
18 and 20x20	17.40	17.40	18.85

Clay Drain Tile—The following prices are per 1,000 lin.ft.:

Size, In.	New York	St. Louis	Chicago	San Francisco
3	$24.80	$16.00	$15.00	$24 50
4	33.95	18.00	18.00	31.50
5	47.50	25.00	23.00	45.50
6	59.75	35.00	27 00	63.00
8	100.00	65.00	55.00	105.00

Sewer Pipe—The following prices are in cents per foot for carload lots:

	New York				
Size, In.	Sept. 7, 1916	One Year Ago	St. Louis	Chicago	San Francisco
3	7.25	4.50	....	6.25	6.00
4	7.25	4.50	....	6.25	8.00
5	12.00	7.20	....	10 00	10.00
6	12 00	7.20	8.25	10.00	12.00
8	16.50	9.90	13.50	13.75	18.00
10	24.00	14.40	18.00	20 00	27.00
12	30.00	18.00	24.50	25.00	33.75
15	40 50	24.30	35.00	33.75	....
18	57 00	34.20	52.50	43.75	67.50
20	67.50	40.50	70 00	56.25	87.50
22	90.00	54.00	84.00	75.00	$1.05
24	97.50	58.50	$1.00	81.25	1.25
27	$1.665	$1.26	1.30	$1.35	....
30	2 035	1.54	1.70	1 65	....
33	2.625	2.06	2.25	2.19	....
36	2.94	2.31	2.50	2.45	....

Hollow Tile—Hollow building tile price per block in cents:

	New York	Chicago	St. Louis	San Francisco
4x12x12 in.	.065	.064	.054	.085
6x12x12 in.	.091	.09	.066	.115
8x12x12 in.	11	.11	.09	.17
10x12x12 in.	.13	.13	.15	.20
12x12x12 in.	.1625	.15	.18	.23

Fireproof partition blocks price per block in cents:

	New York	Chicago	St. Louis	San Francisco
2x12x12 in.	.048	.04	.024	.055
3x12x12 in.	.048	.041	.036	.065
4x12x12 in.	.054	.044	.048	.07
6x12x12 in.	.072	.061	.066	.095
8x12x12 in.	...	.083	.085	.12

Above prices should be for more than carload lots.

Flue Lining—Price per foot in cents for carload lots:

	New York				
	Sept. 7, 1916	One Year Ago	Chicago	St. Louis	San Francisco
4½x 8½ in.	9.80	6.70	10.00	11.00	12.00
4½x13 in.	12.60	9.00	14.00	15 00	18.00
6 x12 in.	11 20	....	....	....	....
8 x 8½ in.	12.60	9.00	14.00	14.00	16.00
8½x18 in.	25.20	18.00	30.00	28.00	30.00
13 x18 in.	23.80	24.00	40.00	40.00	40.00
14 x16 in.	33 60	....	....	....	....
16 x16 in.	....	....	....	....	60.00
18 x18 in.	56.00	40.00	50.00	60.00	....

Asphaltum—Price per ton in packages:

	Brand	
New York	Mexican	$19.50
Chicago	Mexican	21.50
Kansas City	Mexican	21.50
Denver	California	21.50
San Francisco	California	11.50

Wood Block Paving—

Chicago	4 in. block 16 lb. treatment	$1.85 sq yd.
St. Louis	3½ in. block 16 lb. treatment	1.46 sq.yd.

Linseed Oil—These prices are per gallon:

	New York		Cleveland		Chicago	
	Sept. 7, 1916	Three Months Ago	Sept 7, 1916	Three Months Ago	Sept. 7, 1916	Three Months Ago
Raw in barrels	$0.75	$0.73	$0.79	$0.75	$0.75	$0.78
5-gal. cans	.85	.83	.89	.85	.85	.88

White and Red Lead, in cents per pound, sell as follows:

	Red		White
	Dry	In Oil	Dry and In Oil
100-lb keg	10 50	11.00	10 50
25- and 50-lb. kegs	10.75	11.25	10 75
12½-lb. keg	11.00	11 50	11.00
1- to 5-lb. cans	12 50	12 50	12.50

METALS

Miscellaneous Metals—The present quotations in cents per pound with a comparison of practically a month and a year ago are as follows:

	New York		
	Sept. 7, 1916	One Month Ago	One Year Ago
Copper, electrolytic (carload lots)	28.00	27.00	18.00
Tin	38.87½	38.00	35.00
Lead	6.50	6.50	4.75
Spelter	9.50	11.50	15 00

ST. LOUIS

Lead	5.87½	5.87½	....
Spelter	8.75	9 50	....

Old Metals—In New York the following are the dealers' purchasing prices in cents per pound:

	Sept. 7, 1916	One Month Ago	One Year Ago
Copper, heavy and crucible	21.75	19.50	15.88
Copper, heavy and wire	20.75	18.50	15.38
Copper, light and bottoms	17.50	15.50	14.13
Lead, heavy	5.00	4.50	4.75
Lead, tea	4.50	5.00	4.00
Brass, heavy	12.50	11.25	10.25
Brass, light	10.00	9.25	9.50
No. 1 yellow rod brass turnings	13.75	12.75	13.75
Zinc	6.25	7.50	11.38

RAILWAYS, STEAM AND ELECTRIC

Proposed Work

New Jersey—Public Service Railway Co., Newark, plans line on Roseville Ave. R. E. Danforth, Newark, Gen. Mgr.

Pennsylvania—Monongahela Valley Traction Co. made surveys for extension of system through Stealey Heights St. from Weston line, Pittsburgh. E. B. Moore, Fairmont, W. Va., Gen. Mgr.

Pennsylvania—Oil City election in November to vote on $3,000,000 bonds for improving lines and system of Pennsylvania R.R. A. C. Shand, Philadelphia, Ch. Engr. Noted July 27.

Virginia—K. T. Crawley, Industrial Agent Chesapeake & Ohio Ry., Richmond, interested in railway to develop timber lands and connect Goshen, Highland City and Monterey.

Virginia—Washington—Newport News Short Line, Richmond, soon receives bids for railway from Newport News to Washington, D. C., about 210 mi., with branch 50 mi. long, about $8,000,000. F. S. Gannon, 2 Rector St., New York, Pres. C. M Ward, Virginia Railway and Power Bldg., Richmond, Gen. Mgr. Noted Feb. 10.

West Virginia—Kanawha & West Virginia R.R. extending from Charleston to Blakely, purchased by Kanawha & Michigan Ry. of New York Central Lines. New owners plan to improve and extend same. A. N. Lyon, Charleston, Gen. Supt.

West Virginia—Winchester & Western R.R. sold $75,000 stock for proposed line to timber lands around Wardensville, 30 or 40 mi. W. B. Cornwell, Romney, interested.

North Carolina—Duplin County, Kinston, election Aug. 22 to vote on bond issue for railway to be known as Kinston & Snowhill R.R. from Kinston to Snow Hill or Walstonburg or Stantonsburg for Norfolk & Southern Ry. F. L. Nicholson, Norfolk, Va., Ch. Engr. Noted July 6.

Alabama—Chattahoochee Valley Ry. plans line from McCulloh southeasterly to Bleecker, about 12 mi. J. T. Barker, West Point, Ga., Gen. Mgr.

Tennessee—J. K. Ferguson, Paducah, Ky., interested in logging railway in Stewart County, about 3 or 4 mi.

Tennessee—DeKalb County, Smithville, voted $150,000 bonds to aid Nashville & Eastern Ry. to build line from Nashville to Smithville, about 55 mi. C. T. Edwards, Smithville, interested. Noted July 20.

Tennessee—Van Buren Railroad Co. incorporated to construct line from Onward to Doyle, White County, to junction of Bear Hollow and Dry Fork Gulch. M. M. Allison, Chattanooga, interested.

Tennessee—Wayne County, Waynesboro, voted $150,000 bonds for proposed Wayne-Hardin R.R. from Collinwood to Savannah, Tenn. E. H. Steinman, Collinwood, interested. Noted July 20.

Kentucky—Chesapeake & Ohio Ry. plans new line from Elizabethtown to Lexington, 98 mi. F. I. Cabell, Richmond, Va., Ch. Engr.

Indiana—St. Joseph Valley Interurban R.R. to be extended from Elkhart, Ind., to Toledo, Ohio. M. Blizard, La Grange, Gen. Mgr.

Illinois—Wabash R.R. plans another track through Springfield. A. O. Cunningham, St. Louis, Mo., Ch. Engr.

South Dakota—Surveys to be made for railway from Bellefourche, S. D., to Miles City, Mont., about 200 mi. J. H. Thomas, Bellefourche, Ch. Engr. and Supt. Constr.

Missouri—Chicago, Burlington & Quincy Railroad Co. making surveys for line from Mexico to Francis. T. E. Calvert, Chicago, Ill., Ch. Engr.

Oklahoma—(Press)—Chamber of Commerce interested in railway from Oklahoma to Woodward. Contract soon to be let.

Oklahoma—Preliminary surveys being made for interurban railway from Miami to Enid, about 225 mi. W. K. Palmer, Kansas City. Mo., Engr.

Oklahoma—W. K. Palmer Engineering Co., Kansas City, Mo., making surveys and plans for interurban railway from Bartlesville to Nowata, Welch or Blue Jacket and Miami, about 70 mi. D. F. Mason and F. M. Overless, Bartlesville, interested.

Oregon—A. J. Faucett, Newport, interested in Portland & West Coast Railroad and Navigation Co. which plans line from Portland to Newport, about 112 mi. Citizens' Committee guaranteed $25,000 to aid same.

California—Panoche Valley Railroad Co. incorporated to build railway from either Los Banos or South Dos Palos on Southern Pacific in Merced County via Little Panoche and Big Panoche Valleys to Lanada, San Benito County, about 25 mi. H. A. Hollzer, 732 H. W. Hellman Bldg., Los Angeles, interested.

Bids In and Contracts Awarded

California—Atchison, Topeka & Santa Fe Ry. let contract line from Temcula and Fallbrook, about 10 mi., to SHARP & FELLOWS CO., Central Bldg., Los Angeles.

LIGHT, HEAT AND POWER

Proposed Work

N. H., Manchester—Manchester Traction Co. making plans for power house. French & Hubbard, 88 Pearl St., Boston, Engr.

Mass., Lynn—Lynn Gas and Electric Co. plans high power line from station in Montrose to new Lynn water-works pumping station at Middleton. H. K. Morrison, Lynn, Gen. Mgr.

Mass., New Bedford—New Bedford Gas and Edison Light Co. plans to issue stock for improving power house and extending distribution system. D. W. Beaman, New Bedford, Supt.

Mass., Pittsfield—Pittsfield Electric Co. granted permission for transmission line to Lee F. Treat, Ch. Engr.

Mass., Quincy—Bay State St. Railway Co. made plans for addition to power plant. T. Gammon, Quincy, Supt.

N. Y., Buffalo—Delaware, Lackawanna & Western R.R., 24 Michigan St., made plans for brick and concrete power house. About $18,000.

N. Y., Dunkirk—Niagara and Erie Power Co. granted franchise for power plant. About $250,000. Noted July 27.

N. J., Elizabeth—S. L. Moore & Sons Corporation soon lets contract for power plant. Noted May 4.

N. J., Paulsboro—Vacuum Oil Co., 61 Broadway, New York, plans 1-story, 100x115-ft. power plant.

Penn., Philadelphia—Philadelphia Electric Co. plans 1-story power plant. A. J. DeCamp, Mgr. J. T. Windrim, Commonwealth Bldg., Arch.

Penn., Philadelphia—Ferris Shoe Co. made plans for enlarging and improving power plant. C. E. Oelschlager, Arch.

Md., Baltimore—Consolidated Gas, Electric Light and Power Co., Lexington and Liberty St., plans plant at Spring Gardens.

S. C., Orangeburg—W. C. Wolfe and associates plan gas plant. About $100,000.

S. C., Spartanburg—South Carolina Light, Power and Railways Co. retained J. G. White Engineering Corporation, 43 Exchange Pl., New York, as Consult. Engr. in connection with planning and constructing dam on Broad River.

Fla., Quitman—See item under "Water-Works."

Ohio, Bucyrus—Bucyrus Light and Power Co. plans power station. About $50,000. A. C. McNeal, Supt.

Ohio, Walnut Hills—(Cincinnati post office)—Springer & Wood Co., St. Louis, made plans for power house at Walnut Hills.

Mich., Port Huron—Detroit Edison Co. plans substation on St. Clair River. A. Dow, Detroit, Gen. Mgr.

Ill., Chicago—Central Manufacturing Dist. c-o J. A. Spoor, 38 South Dearborn St., making plans for power house. S Scott Joy, 1118 West 35th St., Arch.

Ill., Hanover—City receiving bids Sept. 12 for electric distribution system.

Ill., Pawpaw—Northern Illinois Utilities Co. plans transmission line.

Wis., Lake Geneva—Southern Wisconsin Electric Co. plans $128,000 bond issue for improving and extending plant.

Iowa, Grinnell—Grinnell Electric and Heating Co. plans power station.

Minn., Erskine—City voted $5,000 bonds for electric-light system.

Minn., Rochester—City plans hydro-electric plant. About $360,000. I. C. Utton, Engr. H. L. Cooper in charge of work.

Kan., Atchison—City soon votes on bonds for transmission line to Huron.

N. D., Berthold—Northern States Power Co., Minneapolis, applied for franchise for electric-light system. Company plans to extend lines from Minot to Berthold. R. F. Pack, Minneapolis, Mgr.

N. D., Pembina—H. R. Robawski granted franchise for electric-light plant

Ark., Cotter—M. A. Snyder, Tulsa, Okla., and C. M. Martin, Muskogee, Okla., plans electric-light plant at Cotter.

Tex., Beeville—City plans electric-light plant. Address City Clerk.

Tex., Beeville—Beeville Ice, Light and Power Co. plans electric light and power plant. H. Hamilton, interested.

Tex., Miami—See item under "Water-Works." Noted Aug. 31.

Okla., Hennessey—Hennessey Electric Light, Power and Ice Co. granted permission for electric-light plant.

Idaho, Idaho Falls—East Idaho Gas Co. plans plant.

Ariz., Douglas—Douglas Traction and Light Co. plans to enlarge plant. R. G. Arthur. Mgr.

Calif., Belden—Great Western Power Co. made plans for plant on Feather River. About $25,000. E W. Beardsley, San Francisco, Gen. Supt.

Ont., Dunnville—City soon votes on by-law to borrow $53.000 for hydro-electric light and power plant. J. W. Holmes, Clk.

Ont., Hanover—Light Comn. plans to enlarge plant.

Ont., Lion's Head—Eastnor Township plans hydro-electric system. J. Parker, Clk.

Sask., Swift Current—City Council plans additions to power plant.

Bids In and Contracts Awarded

Mass., Brightwood—Bosch Magneto Co. let contract rein.-con. boiler house to CASPER RANGER CONSTRUCTION CO.

Mass., Great Barrington—Great Barrington Electric Light Co. let contract power plant to FISKE-CARTER CONSTRUCTION CO., Worcester. Noted Aug. 31.

Mass., Northampton — Northampton Electric Lighting Co. let contract substation to J. G. WHITE ENGINEERING CORPORATION, New York.

Penn., Philadelphia—J. Lang Paper Co. let contract boiler house to W. H. EDDLEMAN & SONS, Roxborough, $20,000.

Ohio, Cincinnati—Union Gas and Electric Co. let contract power plant on 4th St. to AMERICAN BRIDGE CO. Noted July 27.

Ill., Dixon—Illinois Northern Utilties Co. let contract dam across Rock River to W. J. McALPINE, Dixon, $75,000.

Wis., Milwaukee—City let contracts improving lighting system to AMERICAN STEEL WIRE CO., Worcester, $43,230; SIMPLEX WIRE AND CABLE CO., Boston, $17,600; HAZARD MANUFACTURING CO., Wilkes-Barre, $10,286; SAFETY INSULATED WIRE CO., Bayonne, $119.240; LIMA MATERIAL CO., South Milwaukee, $11,928. Noted Apr. 20.

BRIDGES

Proposed Work

N. H., Claremont — City plans 2 rein.-con. bridges. Storrs & Storrs, 59 N. Main St., Concord, Engr.

Vt., Barre—City receiving bids Sept. 11 for arch bridge in South Main St. Robert Gordon, Mayor.

N. Y., Corning — City plans rein.-con. bridge. About $110,000. W. O. Drake, Engr.

N. Y., Elmira—City plans 800-ft. bridge over Chemung River on Main St. T. A. Brown, City Engr.

N. Y., Ft. Plain—(Official)—City receiving bids Sept. 11 for 85 ft. span rein.-con. arch bridge over Otsquago Creek. About $8,500. Noted Aug. 24.

N. J., Rahway—Bd. Freeholders Union County plan to repair Milton Ave. Bridge, about $12,000. Address Clerk, Elizabeth.

N. J., Trenton—Mercer County receiving bids Sept 12 for improving Bruers bridge on Princeton and Lawrenceville Rd. Address County Clerk, Trenton. Noted July 20.

N. J., Trenton—Mercer County receiving bids Sept. 12 for rein.-con. bridge over Pond Run on Liberty St. Address County Clerk, Trenton.

Penn., Lewistown—Pennsylvania R.R. soon receives bids for rein.-con. bridge about $20,000. N. W. Smith, Altoona, Supt. A. C. Shand, Broad St. Sta., Philadelphia, Ch. Engr.

Penn., Scranton—Lackawanna County soon receives bids for 6 concrete bridges. About $4,000. Address County Clk., Scranton.

Penn., Thorndale—Pennsylvania R.R. plans overhead bridge. A. C. Shand, Philadelphia, Ch. Engr.

Penn., Waynesburg—Greene County receiving bids Sept. 11 for substructure bridge over Brissett Run near Deep Water Valley, Springhill Township. T. B. Dinsmore, County Engr.

Penn., Wilkes-Barre—Luzerne County plans bridge over Susquehanna River from Wilkes-Barre to Dorranceton. Address County Clk., Wilkes-Barre.

Va., Pearisburg—(Official)—Giles County receiving bids Sept. 12 for rein.-con. bridge over New River, at Narrows. Address County Clk., Pearisburg.

W. Va., Everson—Marion County receiving bids Sept. 12 for concrete bridge over West Fork River near Everson. Address County Clk., Fairmont.

W. Va., Parkersburg—Wood County Court receiving bids Sept. 12 for concrete or stone bridge across Wolfe Run on Pond Creek. Address County Clk., Parkersburg.

W. Va., Welch—City plans bridge over Elkhorn River. L. A. Osborne, Mayor.

Ga., Roswell—Cobb County plans concrete bridge over Chattahoochee River, about $35,000. Address County Clk., Atlanta.

Fla., Clearwater—City plans bridge over Clearwater Key.

Fla., St. Petersburg—Citizens plan causeway between mainland near Gulfport and northwest end of Long Key.

Fla., Tallahassee—See item under "Streets and Roads."

Ala., Mobile—(Official)—City does not plan viaduct at 10th St. as noted in Aug. 17 issue.

La., Jennings—Jefferson Davis Parish Police Jury, Jennings, and Arcadia Parish Police Jury, Crowley, plans bridge across Mermentau River. Address Clk., Jennings.

Ohio, Dayton—Montgomery County receiving bids Sept 15 for steel bridge over Stillwater River. Walter H. Aszling, Dayton, Clerk.

Ohio, Delaware—Delaware County receiving bids Sept. 11 for improving Patrick bridge over Big Walnut Creek, Porter Township. W. V. Aldrich, Delaware, County Audr.

Bridges (Continued)

Ohio, Elyria—City plans repairing Mussey Ave. bridge. C. M. Theobald, Engr.

Ohio, Lisbon—Columbiana County receiving bids Sept. 18 for repairing Bridge No. 1793, Liverpool Township, about 24,500 lb. steel and superstructure of Bridge No. 1116, St. Clair Township on East Liverpool-Warren Rd., about 28,100 lb. structural steel. H. R. Dickey, Lisbon, Clk.

Ind., Anderson—County Comrs. plan bridge across White River at 9th St. About $68,000. Address County Clk., Anderson.

Ind., Bluffton—Wells County will ask for appropriation for 26 bridges and culverts and 1 retaining wall. Address County Clk., Bluffton.

Ind., Ft. Wayne—Allen County plans bridge over Spy Run Creek at 4th St. About $7,500. Address County Clerk, Fort Wayne.

Ind., South Bend—St. Joseph County receiving bids Sept. 11 for bridge in Harris Township. Address County Clk., South Bend.

Mich., Ironwood—Railroad Comrs. plan viaduct across tracks. About $35,000.

Ill., Bloomington—City voted $5,000 bonds for bridges in Yates Township.

Ill., Kankakee—Kankakee and Will Counties, Kankakee, receiving bids Sept. 11 for rein.-con. bridge over Kankakee River between 2 counties, about $46,740. F. M. Enos, Kankakee, County Supt. Highways. Noted Aug. 24.

Ill., Washburn — A. B. Hurd, County Supt. Highways, El Paso, receiving bids Sept. 11 for concrete bridge.

Iowa, Council Bluffs—City plans voting bond issue for free bridge over Missouri River. E. E. Spetman, City Engr.

Minn., Faribault—City receiving bids Sept. 15 for bridge at Sheffield King Mill. F. W. McKellip, City Engr.

Minn., Glenwood — City plans concrete bridge across outlet of Lake Ben.

Minn., Jordan—City retained J. H. A. Bratz, Consult. Engr., Mankato, to make investigations and submit report on building bridge over Minnesota River, about 300-ft. long, concrete.

Minn., Minneapolis—Bd. Comrs. Hennepin County approved plans for concrete bridge over tracks Twin City Rapid Transit Co. on Excelsior Ave., about $6,000. Address County Clerk, Minneapolis.

Minn., Minneapolis—Dakota and Hennepin Counties plan bridge over Minnesota River at Lyndale Ave. Address County Clerk, Minneapolis.

Kan., Neodesha—(Official)—Wilson County receiving bids Sept 29 for 100-ft. steel span bridge over Verdigris River. Address County Clerk, Fredonia.

N. D., Bottineau—County receiving bids Sept. 12 for rein.-con. bridge over House River. Address County Clk., Bottineau.

Mo., Kansas City—City plans 2 culverts over Goose Neck Creek. About $12,000. V. L. Cockrane, Struct. Engr.

Tex., Ft. Worth—Council appropriated $25,000 for completing Allen Ave. viaduct. Bids soon to be received. Noted Aug. 17.

Tex., Fredericksburg — City plans concrete bridge over Pedernales River.

Okla., Durant—County Comrs. plan 16 steel bridges. About $80,000. Address County Clerk, Durant.

Okla., Guthrie—County Comrs. receiving bids Sept. 19 for bridge across Fitzgerald Creek. Address County Clk., Guthrie.

Okla., Jay—Delaware County defeated $20,000 bonds for bridge across Grand River. Address County Clk., Jay. Noted July 6.

Wash., Kalama—Cowlitz County election Nov. 7 to vote on $60,000 bonds for bridge over Cowlitz River. R. C. Westwick, County Engr.

Wash., Kelso—County election November to vote on $55,000 bonds for bridge over Gray River at Kelso. Address County Clk., Kelso. Noted Apr. 27.

Wash., Seattle—City plans bridge across West Waterway at Spokane St. About $40,000. A. H. Dimock, City Engr.

Wash., Spokane—City made plans for Post St. bridge. About $40,000. Morton Macartney, City Engr.

Calif., Oakland—County receiving bids Sept. 11 for rein.-con. bridge in Eden Rd. Township. Address County Clk., Oakland.

Man., Winnipeg—Good Rds. Bd. plans bridge Qu Appelle Valley and 9 bridges in Roblin Municipality. About $13,550.

B. C., New Westminster—Great Northern Railway Co. plans bridge over North Rd. A. H. Hogeland, St. Paul, Minn., Ch. Engr.

Bids In and Contracts Awarded

Vt., Springfield—City let contract bridge to CUMMINGS CONSTRUCTION CO., Wodsville, N. Y.

Mass., Westfield—Town rejected bids for rein.-con. superstructures and concrete foundations for Cowles Bridge over Little River and Loomis St. Bridge over Munces Brook. Noted Aug. 17.

N. Y., Alabama—City let contract 6 bridges in Allegheny and Judge Rd. to WARSAW CONSTRUCTION CO., Highland Ave., Warsaw. About $6,398.

N. J., Lambertville—Board Freeholders let contract concrete bridges on Union St. to SUTTON & ERNEST, Neshanic. Noted Aug. 17.

Penn., Indiana—City let contract 6 bridges over Cherry Run to WHITTAKER & DIEHL, Harrisburg. About $6,000.

Penn., Sunbury—City let contract rein.-con. bridge over Warriors Run to MILTON CEMENT AND PRODUCT CO., Milton.

Va., Bedford—State Highway Comn. let contract rein.-con. bridge across Big Otter Creek to ROANOKE IRON AND BRIDGE CO., Roanoke. About $4,477. Noted May 18.

W. Va., Grafton—County let contract bridge over Lost River on North West Turnpike and 2 bridges over Wickwire Creek to LUTEN BRIDGE CO., Clarksburg. Noted Aug. 17.

W. Va., Parkersburg—Kanawha Traction and Electric Co. let contract viaduct across ravine below Boaz to MERYDITH CONSTRUCTION CO., Marietta. About $60,000. Noted July 20.

N. C., Belmont—Southern Ry. let contract bridge over Catawba River to R. RUSSELL, Charlotte.

N. C., Mt. Holly—Piedmont & Northern Railway Co. let contract bridge over Catawba River to VIRGINIA BRIDGE AND IRON WORKS. About $125,000.

Fla., Ft. Lauderdale—(Official)—County Comrs. let contract 2 steel highway bridges Dist. No. 1 and 2 to CHAMPION BRIDGE CO., Wilmington, Ohio. About $12,000 and $6,850. Noted Aug. 17.

Ala., Clayton—Barbour County let contract concrete bridge over Chahanatchie Creek to J. H. SCRUGGS CONSTRUTION CO., Birmingham, $7,875. Noted Aug. 24.

Ala., Mobile—County Bd. rejected bids for extending Dog River Bridge. Noted Aug. 10.

Tenn., Milan—County let contract 9 bridges to VIRGINIA BRIDGE AND IRON CO., Memphis, $17,352.

Tenn., Smithville—DeKalb County let contract bridge over Hickman Creek at Alexandria to NASHVILLE BRIDGE CO.

Ohio, Brinkhaven—Pennsylvania R.R. let contract rein.-con. bridge over Walhonding River to W. M. BRODE, Newcomerstown. About $25,000.

Ohio, Hamilton—County received low bid for Somerville and Kolp-Mee Bridges from Arpp-Simpson Co., Middletown. About $17.772 and $10,000. Noted Aug. 3.

Ohio, Miamisburg—County Comrs. let contract bridge to ISAAC SMITH. About $50,000. Noted July 27.

Ohio, Norwalk—City let contract 2 bridges to E. K. JENNINGS, Hicksville.

Ind., South Bend—(Official)—County let contract 3 bridges to SENO A DEL GADDO., South Bend. About $15,000. Noted Aug. 17.

Mich., Saginaw—Board Pub. Wks. let contract rebuilding Mackinaw St. bridge to JOLIET BRIDGE AND IRON WORKS, North Collins St. About $33,000. Noted July 27.

Ill., Carlyle — County let contract rein.-con. bridge in Clement Township to JAMES BALDOCK, Ramsey.

Ill., Chicago—(Official)—Evansville & Indianapolis R.R. let contract rebuilding White River Bridge, also Doanes Creek Bridge to STANDISH & ALLAN, 220 South State St.

Ill., Quincy—Board Pub. Wks., let contract Morton bridge to DEMPSEY CONSTRUCTION CO., Quincy. Noted Aug. 24.

Ill., Salem—City let contract Reinhardt-Sachtleben Bridge to W. C. JOHNSON, Belleville.

Wis., Prairie du Chien—City let contract rein.-con. bridge to GEORGE J. LENGST.

Iowa, Elkader—Clayton County let contract 13 bridges and culverts to A. C. BOYLE, McGregor. About $12,000.

Iowa, Tipton—County let contract 35 culverts to S. R. JOHNSON, Tipton, $9,626; 1 steel bridge, IOWA BRIDGE CO., Des Moines, $6,800.

Minn., Bemidji—City let contract rein.-con. bridge across Mississippi River to ILLINOIS STEEL BRIDGE CO., St. Paul. Noted Aug. 17.

Minn., St. Cloud—(Official)—County let contract State Bridge No. 2014 to PLYMOUTH CONSTRUCTION AND REPAIR CO., Minneapolis. About $10,000. Noted Aug. 17.

Neb., Omaha—Dakota County Drainage Dist. No. 2 let contract 6 bridges to TOWLE ENGINEERING CO., 1123 City National Bank Bldg., Omaha. About $12,800.

N. D., Beach—City let contract 11 bridges to GEORGE W. KEMPER, Minot. About $5,000.

Mo., Kansas City—Board Pub. Wks. let contract 23rd St. viaduct to J. W. McMURRAY CONSTRUCTION CO. About $19,450. Noted Aug. 31.

Tex., Holbrook—Navaji County let contract steel bridge over Colorado River at Winslow to MESMER & RICE, Los Angeles, Calif. About $30,000.

Wash., Pullman—County let contract 3 Luten rein.-con. arch bridges over Paradise Creek to H. C. MALOT, Seattle, $5,862.

Wash., South Bend—(Official)—Pacific County let contract rein.-con. arch bridge over Forks Creek and Fern Creek to CHARLES G. HUBER, Central Bldg., South Bend. Noted Aug. 10.

Wash., Tekoa—County let contract arch bridge over Hangman Creek to C. G. HUBER, Seattle, $5,987.

Calif., Lakeside—City let contract bridge over San Diego River to FRED STEFFGEN. About $17,844.

Calif., Santa Barbara—State Highway Comn., Forum Bldg., Sacramento, received low bid for bridge across Santa Ynez River from Mercer-Fraser Co. Eureka. About $124,650. Noted Aug. 10.

N. S., Belmont—Southern Ry. let contract bridge across Catawba River to AMERICAN BRIDGE CO., 30 Church St., New York.

Ont., Vaughan—Town Council let contract rein.-con. bridge over Humber River to RITCHIE CONSTRUCTION CO., Beamsville.

Ont., Waterloo—Council let contract steel bridge to HAMILTON BRIDGE CO., Hamilton and G. G. REID, 19 Howland Ave., Toronto. About $5,000.

Ont., Waterloo — Council let contract steel bridges to JOHN E. BOWMAN.

WATER-WORKS

Proposed Work

Mass., Pittsfield—City sold $15,000 bonds for extending water system.

N. J., Hightstown—City plans water system. E. P. Rogers, Supt. and Comr.

Penn., Kittanning—City plans water system, about $125,000. J. P. Turping, Supt. L. Hudson, Pittsburgh, Engr.

Penn., Philadelphia—Council passed ordinance for water mains in number of streets. A. J. Fuller, Gen. Supt. Noted July 20.

Del., Newark—Council plans additional standpipe or reservoir.

Va., Galax—City sold $30,000 water bonds.

Va., West Point—City sold $30,000 bonds for water and sewer systems and paving. H. Anderson, Mayor. Noted June 1.

N. C., Beaufort—Towns plans to spend $100,000 for water and sewer systems and breakwater.

Fla., Ft. Pierce—City making plans for improving water system. About $4,000. N. C. Russell, Supt.

Fla., Quitman—City plans water and electric-light systems.

Miss., Magnolia—City soon receiving bids for well. X. A. Kramer, Supt.

Tenn., Copperhill—See item under "Sewers." Noted June 1.

Ohio, Dayton—City plans $43,000 bond issue for new dam. H. Collins, Supt. Water Dept. Noted June 29.

Ohio, Gibsonburg—Council passed ordinance to issue $6,600 bonds for improving water system. A. Spangler, Supt.

Ohio, Mansfield—City receiving bids Sept. 12 for water meters, about $27,000. H. Johns, City Engr. Noted Aug. 24.

Ohio, Middletown—City authorized expenditure of $14,500 for extending water-works.

Ind., Eaton—Trustees Union Township will soon let contract for drilling well in Dist. No. 4.

Ill., Bloomington—Bd. Local Impts. soon receives bids for water mains on Poplar and Walnut St. S. S. Noble, Supt.

Ill., Decatur—City Comrs. to issue $42,000 bonds for pumping station. Harry Rathrauff, Supt.

Ill., Galesburg—Council voted to extend water system and mains on Jefferson, North Cherry, South Pearl and West 1st St., about $25,000. T. H. Snowball, Supt.

Ill., Kankakee—City passed ordinance for water mains in South 6th Ave. C. H. Cobb, Supt.

Ill., Riverdale—Village Bd. plans water mains in West 138th St.

Ill., St. Charles—See item under "Sewers."

Ill., Viola—Village receiving bids Sept. 21 for 20,400-ft. 4- to 8-in. mains, fittings, etc. B. D. Baxter, Pres. Village Bd.

Wis., Evansville—See item under "Sewers."

Wis., Mineral Point—City receiving bids Sept. 12 for well. H. W. Jackson, City Clk.

Wis., Portage—City Comrs. plan filter plant. About $18,000.

Iowa, Exira—City soon to vote on bond issue for extending water system.

Minn., Staples—City receiving bids Sept. 12 for 200,000 gal. rein.-con. reservoir. O. B. Nelson, 942 17th Ave., S. E., Minneapolis, Engr.

Kan., Concordia—City plans to spend $12,870 to improve and extend water system. Noted June 22.

Kan., Moran—(Official)—City votes Sept. 18 on $30,000 water bonds and $12,000 electric-light bonds.

Kan., Robinson—City plans water system.

Neb., Lincoln—City receiving bids Sept. 12 for improving water system, about $11,000. E. H. Berg, City Clk.

S. D., Woolsey—City plans water system.

Mo., Oronogo—City plans $10,000 bond issue for new well. A. M. Baird, City Atty.

Mo., Paris—City voted $12,500 filter plant bonds. G. B. Blakey, Supt. Water Dept. W. B. Rollins & Co., 439 Midland Bldg., Kansas City, Engr. Noted July 13.

Water-Works (Continued)

Mo., Sedalia—Pub. Ser. Comn. authorizes water mains in West 4th St. H. C. Warren, Pres.

Ark., Stuggart—City making plans for water system. About $85,000.

Tex., Abilene—City Comn. plans enlarging municipal water system.

Tex., Hallettsville—City plans improving water and electric light systems.

Tex., Leonard—City election Sept. 16 to vote on $8,000 bonds for water system.

Tex., Miami—City sold $25,000 water and electric-light system bonds. Noted Aug. 31.

Tex., Temple—City making plans for 4,000,000 gal. concrete reservoir. D. M. Seybold, Supt. Water Dept. Noted Aug. 31.

Okla., Idabel—City soon lets contract for improving and extending water system. T. J. Bookout, City Clk. F. D. Taafe, Engr. Noted May 25.

Okla., Wetumka—City plans to spend $40,000 for improving water system. Noted Aug. 10.

Colo., Greeley—City soon lets contract for 4,000-ft. of 20-in. steel pipe. M. Seaman, Supt.

Idaho, Albion—A. E. Uhl, Gen. Mgr., receiving bids Oct. 1 for water system, about $8,000.

Idaho, Lewiston—City making plans for new settling basin. E. G. Wagner, Supt. Water Wks.

Idaho, Plummer—City plans reservoir and water system.

Idaho, Pocatello—City election Sept. 14 to vote on $300,000 bonds for improving water-works. E. C. Smith, Supt. Water Dept. Noted Aug. 3.

Utah, Murray—City plans election to vote on $150,000 water-works bonds. Noted May 18.

Utah, Vernal—City voted $23,000 water improvement bonds. Noted July 27.

Ariz., Tucson—J. W. Daily, Tucson, plans reservoir, conduit and power house at Sabine Canyon dam.

Ont., Mt. Dennis—City retained F. Barber, 57 Adelaide St. E., Toronto, to make plans for water mains.

Ont., Richmond Hill—City retained James Louden and Herzberger, Engr. to make plans for pumping station. About $30,000.

B. C., Edmonds—City plans water mains to Capitol Hill. About $5,000.

Bids In and Contracts Awarded

Mass., Boston—City received low bid for water mains from D. DeSisto, 198 LaGrange St., West Roxbury. G. F. Finneran, Supt. Water-Works.

Mass., Boston—Hugh McNulty, 51 Coolidge Rd., Allston, low bidder for water mains. G. F. Finneran, Supt. Water-Works.

Mass., Foxboro—City let contract water mains to W. D. SMITH, Wrentham. About $5,500. Noted June 8.

N. J., Keyport—City let contract improving filter beds and reservoir to BOWNE BROS., Keyport. Noted July 6.

Penn., Braddock—Council let contracts 2 pumps for water system to EPPING-CARPENTER PUMP CO., Pittsburgh. About $26,050.

Penn., Erie—(Official)—Bd. Water Comrs. let contract 20,000,000-gal. filter plant to DE LAVAL PUMP CO., Trenton, N. J. Noted Aug. 17.

Penn., Mercer—(Official)—Mercer Water Co. let contract filter plant to ELECTRO-BLEACHING CO., 18 East 41st St., New York. Noted June 22.

W. Va., Shepherdstown—Shepherdstown Light and Water Co. let contract for water system to G. O. ENSIGN, Camp Hill, Penn. About $16,000. Noted July 20.

N. C., Durham—City let contract improving water system to W. M. WILKES CO., Box 601, Atlanta, Ga.

N. C., Scotland Neck—(Official)—City let contract water and sewer systems to J. B. McCRARY CO., Atlanta, Ga. Noted Aug. 31.

Ohio, Coshocton—City received low bid improving water system from Pitt Construction Co., $27,437. S. Ashman, Ser. Safety Dir. Noted July 20.

Ohio, Ironton—City rejected bids for pumping station and intake wells. Noted Aug. 17.

Ohio, Medina—City let contract filter plant and pumping station to PITTSBURGH FILTER AND MANUFACTURING CO., Pittsburgh, $23,150. Noted Aug. 17.

Mich., Highland Park—Village rejected bids for 40,000,000 gal. rein.-con. reservoir. New bids. R. M. Ford, Clk. Noted Aug. 17.

Ill., Barry—Village let contract improving water system to MONIL & DUNBAR, $15,184. Noted Aug. 17.

Wis., Fond du Lac—Board Pub. Wks. let contract c.-i. pipe to UNITED STATES CAST IRON PIPE CO.

Wis., Jefferson—City let contract reservoir to ARTHUR E. TUERBRINGER.

Iowa, Hampton—City let contract water mains to DES MOINES BRIDGE AND IRON CO., Des Moines, $4,150. Noted Aug. 17.

Iowa, Vinton—City let contract elevated tank to DES MOINES BRIDGE AND IRON CO., $6,885.

Iowa, Waukon—City let contract well to C. D. NOLAN, Cedar Rapids.

Minn., Red Lake Falls—City let contract 10-in. well to J. F. McCARTHY, 407 6th St. S., Red Lake Falls.

Wyo., Riverton—City let contract improving water-works to GORDON & TAYLOR CONSTRUCTION CO., Century Bldg., Denver, $20,044. Noted July 27.

Ark., Morrilton—Arkansas Light and Power Co., let contract for well to LANE & BOWLER CO., Stuggart.

Wash., Seattle—Pacific Lock Joint Co., Globe Bldg., at $54,585, low bidder for permanent mains between Cedar River Intake and city reservoirs. Noted Feb. 24.

Wash., Seattle—City let contract water mains in Chelan Ave. to R. H. TRAVERSE, Arcade Bldg. about $10,000. Noted Aug. 31.

Wash., Seattle—City let contract water mains in Hudson St. to F. N. BADOLATO, 1102 Corwin Pl., $22,162. Noted May 4.

Calif., Glendale—City let contract about 1,000 tons Class "B" c.-i. pipe to UNITED STATES CAST IRON PIPE AND FOUNDRY CO., 309 Union Oil Bldg., Los Angeles, $40.60 per ton for 4-in., $37.60 for 6-, 8-, and 20-in. and $65 for special castings. Noted Aug. 24.

N. B., St. John—City let contract c.-i. pipe to VROOM & ARNOLD, St. John, $25 000.

SEWERS

Proposed Work

Conn., Thomaston—City retained C. H. Preston, Engr., Waterbury, to make plans for sewer system.

Conn., Woodmont—Town plans sewage system.

N. Y., New York—(Manhattan)—M. M. Marks, Borough Pres., receiving bids Sept. 8 for improving sewer at Dyckman St. and Hudson River, including building of submerged outlet and screening chamber complete.

N. Y., Rochester—City voted $200,000 sewage plant bonds. F. T. Elwood, City Engr.

N. Y., Bogota—(Official)—Borough Council receiving bids Sept. 15 for about 4 mi. 8- and 10-in. vitrified sewers with "Y" branches, manholes, etc. H. P. Ross, Clk. H. A. Braumuller, Mayor. (See adv. Aug. 31 issue.)

N. Y., Oneonta—City soon lets contract sewage-disposal plant. F. M. Gurney, City Engr. Noted May 4.

N. Y., New Brunswick—City plans storm water sewers in Commercial Ave.

N. Y., White Plains—Comr. Pub. Wks. soon lets contract for sewers. About $13,000. W. T. Collyer, 6 Grand St., City Engr.

N. J., Montclair—City receiving bids Sept. 12 for sanitary sewer. H. Trippett, Clk. E. S. Closson, Municipal Bldg., Engr. Noted Aug. 17.

Penn., Bellwood—(Official)—City soon receives bids for sewage disposal plant and sewer system. H. Linton, Altoona, Engr. Noted July 20.

Penn., South Bethlehem—B. H. Birkle, Chn. Sewer Com., receiving bids Sept. 18 for intercepting sewer and treatment works. Noted Aug. 24.

Va., West Point—See item under "Water-Works." Noted June 1.

W. Va., Cameron—City soon votes on bonds for sewer system.

N. C., Beaufort—See item under "Water Works."

S. C., Columbia—City receiving bids Sept. 19 for sewers. T. Keith Legare, City Engr.

Ala., Tuscaloosa—City Comrs. receiving bids Sept. 19 for storm sewer. About $8,500. W. H. Nicol, City Engr.

Tenn., Copperhill—City soon lets contract for sewer and water systems. About $20,000. Noted June 1.

Tenn., Jonesboro—City soon votes on bonds for sewer system.

Ohio, Akron—City plans sewer in Weeks St. J. E. Gehres, City Engr.

Ohio, Columbus—City receiving bids Sept. 12 for 3d Ave. relief sewer. T. A. Borden, Dir. Pub. Serv.

Ohio, Lancaster—(Official)—City receiving bids Sept. 15 for sewers in Dists. Nos. 1 and 11, about $4,644. J. Griggs, City Engr. Noted July 27.

Ohio, Lorain—City plans to extend storm water sewer Dist. B, improve sewer in Waverly Pl. and West 22d St. C. M. Osborne, City Engr.

Ohio, Lorain—City plans sanitary sewer in Denver Ave. C. M. Osborne, City Engr.

Ohio, Middletown—City receiving bids Sept. 12 for storm and sanitary sewers. J. Kunz, Clk. Noted Aug. 31.

Ohio, Mt. Vernon—City plans sanitary sewer in Mulberry St.

Ohio, Port Clinton—(Official)—City receiving bids Oct. 10 for Washington St. sewer. About $15,986. W. H. Williamsen, Clk. K. E. Wedikind, City Engr. Noted Aug. 10.

Ohio, Port Clinton—(Official)—City receiving bids Oct. 3 for Monroe St. sewer. About $9,832. W. H. Williamsen, Clk. K. E. Wedikind, City Engr. Noted Aug. 10.

Ohio, Salem—City plans $20,000 bond issue for sewage plant.

Ohio, Wooster—City plans sewers in Emerick St. O. H. N. Mowery, City Engr.

Mich., Lansing—City plans $5,900 bond issue for sewers.

Ill., Belleville—Board Local Impvt. plans to install sewer.

Ill., St. Charles—Bd. Local Impvt. receiving bids Sept. 14 for sanitary sewer Dist. No. 2, also extending water mains. J. W. Wilson, Engr.

Wis., Waterford—City rejected bids for sewer in East Main St. New bids.

Minn., Duluth—City plans sewers in 5th St.

Minn., St. Paul—City plans sewer system for Anthony Hill Dist., about $797,057. O. Claussen, City Engr.

Minn., Winthrop—City receiving bids Sept. 11 for sanitary sewer. J. A. Chilstrom, City Clk. F. D. Minium, Engr.

Iowa, Anthon—City receiving bids Sept. 12 for sanitary sewers, septic tank and filters. About $20,000. L. L. Lucas, Clk. Noted Aug. 10.

Iowa, Jefferson—City plans sewers in Dist. No. 3. E. F. Raver, City Clk.

Kan., Topeka—City plans sewers in Lake St. A. R. Young, City Engr.

Neb., Randolph—City approved preliminary plans for sewer system. Noted May 18.

Neb., Red Cloud—City voted $10,000 sewer bonds. Grant & Fulton, Lincoln, Consult. Engr.

Mont., Three Forks—City receiving bids Sept. 18 for sanitary sewers. P. Peine, City Clk. Swearinghen & McCulloh, Great Falls, Consult. Engr. Noted Aug. 17.

Mo., Harrisonville—(Official)—City did not vote $15,000 bonds for sewer system and disposal plant as noted in issue Aug. 17.

Mo., Milan—City making plans for sewer system, about $25,000. E. T. Archer & Co., Kansas City, Engr.

Mo., Poplar Bluff—St. Louis & San Francisco R.R. plans sewers. About $20,000. F. G. Jonah, St. Louis, Ch. Engr.

Tex., Beaumont—City voted $25,000 bonds for sewer and water-works.

Tex., College Station—Agricultural and Mechanical College of Texas plans sewer system and sewage pumping unit. G. E. Byers, Supt. Bldgs. and Grounds.

Tex., Houston—City soon lets contract for sewer system and sewage plant. About $500,000. E. E. Sands, City Engr. Noted Aug. 3.

Tex., Port Arthur—City making plans for sewer system. About $100,000. Noted June 8.

Tex., Waxahachie—City soon votes on $120,000 bonds for sewage disposal plant, street improvements, etc.

Okla., Sand Springs—City voted $30,000 bonds for sewer system. J. H. Gladson, Mayor.

Calif., Santa Barbara—City making surveys for sewage disposal plant. A. B. Cook, City Engr.

Bids In and Contracts Awarded

Maine, Portland—(Official)—City let contract sewer to CAMILLO PROFENNO, 12 Ponce St., Portland, $6,743.

Mass., Boston—(West Roxbury)—City received low bids sewers and surface drains in West Roxbury from W. L. Dolan, 44 Tower St., Jamaica Plain, J. Barletta, 364 Hanover St. and G. J. Reagon, 92 Stoughton St.

Mass., Haverhill—(Official)—City will build sewers in Main St.; work will be done by day labor. L. C. Lawton, City Engr. Noted Aug. 17.

Conn., Torrington—City let contract sewers to J. E. DRISCOLL, $8,730.

N. Y., New York—(Brooklyn)—(Official)—Borough let contract sewers in Bay 35th, East 7th and East 4th St., Ave. J and Delamere Pl. to A. A. DUMPROFF; East 4th and 56th St. B. PECONI & SON; 23rd Ave., MURPHY BROS.; East 12th St., E. GHILARDI CONTRACTING CO. Noted Aug. 17.

N. Y., New York—(Manhattan)—(Official)—Borough let contract sewer portion Lafayette St. to H. E. FOX CONSTRUCTION CO. Noted July 20.

N. Y., New York—(Queens)—(Official)—Low bidders sewers in various streets were: E. W. Fitzpatrick, Hughes St., $6,252, Shaler St., $7,794; J. L. Sigretto, Benedict Ave., $6,372; J. E. Bunting Co., Inc., Queens Ave., $43,074; DI COLA & MARTING, Chichester Ave., $21,753. Noted Aug. 24.

N. Y., Olean—Fure & Fote, North 8th St., $11,482 submitted lowest bid for storm and sanitary sewers in West State St. E. E. Allen, City Engr. Noted Aug. 17.

N. J., Camden—City let contract sewers in 27th St. and Railroad Alley to F. A. WARD, 524 Trenton Ave. Noted Aug. 10.

Penn., New Castle—(Official)—City rejected bids received Aug. 21 for sewers in Sharp St. C. H. Milholland, City Engr.

Penn., Uniontown—City let contract east end sewer to BROOKE & CORNISH, $5,955.

Va., West Point—City let contract sewers to J. B. McCRARY CO., Atlanta, Ga., $20,400.

N. C., Scotland Neck—(Official)—See item under "Water-Works." Noted Aug. 31.

Ohio, Dayton—T. P. Strack, Cincinnati, $7,425, submitted lowest bid for storm water sewer in Bolender Ave. F. O. Eichelberger, City Engr.

Ohio, Dayton—T. P. Strack, Cincinnati, $39,365, submitted lowest bid for storm water sewers in Ecker St. F. O. Eichelberger, City Engr.

Sewers (Continued)

Ohio, Sandusky—City let contract sewers in Madison and Ransom St. to H. HOMBERGER. Noted Aug. 10.

Ohio, Struthers—(Official)—City let contract sewers in Center St. to A. O'HARA, Youngstown.

Ind., Logansport—City let contract sewer in Douglas St. to PLAINER, MOORE & CO.

Mich., Highland Park—(Official)—City let contract drains in Davison and Dequindre Ave. to G. PATTISON, 530 3d Ave., Detroit, $12,555. Noted Aug. 17.

Ill., Granite City—(Official)—Bd. Local Impvts. let contract outlet sewer improvement to WALBRIDGE & JOBST, 6 North Michigan Ave., Chicago, $379,966. Noted Aug. 10.

Ill., Quincy—City rejected bids for sewer in Washington St. F. L. Hancock, City Engr.

Ill., Springfield—City let contract sewers in Peoria Rd. to H. NELCH & SON, $4,665. Noted July 13.

Iowa, Eldon—(Official)—City let contract sewer system to HARNESS BROS., 426 Burrhus St., Ottumwa, Sections A, B and D; J. L. HANSMAN, Des Moines, Section C, Route No. 5. Noted Aug. 17.

Iowa, Malvern—City let contract sewer system to DUNNEGAN & BRIGGS.

Iowa, Sioux City—City let contract South Morning Side sanitary sewer system to CADY & SAVONELL. About $12,000.

Iowa, Stuart—(Official)—City let contract sewer system to H. REES, Quincy, Ill., $23,067, disposal plant to P. E. WYLE, Guthrie Center, $10,718. Noted Aug. 13.

Wis., Evansville—Bd. Pub. Wks. let contract 8- and 10-in. sewers, 2 manholes and 4- and 6-in. c.-i. water mains to J. N. ROHERTY, Janesville. Noted Aug. 17.

Wis., Platteville—Council let contract sewers in Rountree and Alden Ave. to MEYER & PLACE.

Wyo., Riverton—City let contract sewer system to GORDON & TAYLOR, Century Bldg., Denver, $28,848. Noted June 29.

Mo., Kirksville—City let contract sewers to G. W. BARKWELL, Columbia, $6,400. Noted July 13

Tex., Amarillo—City let contract extending sewer system to WINSLETT & ELDRIDGE. Noted July 27.

Okla., Bartlesville—City let contract, storm sewer in West Side Park to J. W. MENEFEE CO., Sedalia, Mo.

Calif., Berkeley—City let contract sewers in Shattuck Ave. and Hopkins St. to W. T. TOBIN.

Calif., Chino—City let contract sewer system to L. FLEMING, Pomona, $30,940. Noted Aug. 31.

GARBAGE

Proposed Work

Ohio, Dayton—City plans to improve and enlarge garbage disposal plant. F. O. Eichelberger, City Engr.

Ohio, Wooster—City Council considering application for franchise for garbage disposal plant. H. W. Mowery, City Engr.

Mich., Lansing—City plans garbage disposal system. H. W. Sparks, City Engr.

Mich., Saginaw—City Council plans garbage disposal plant. H. H. Eymer, City Engr.

Ill., Galesbury—City Council plans garbage collection and disposal system. F. M. Connolly, City Engr.

Ill., Highland Park—City receiving bids Sept 8 for garbage incinerator. E. A. Warner, City Clk. Noted Mar. 16.

Wis., Milwaukee—City plans garbage disposal plant. F. G. Stall, City Engr.

Bids In and Contracts Awarded

Penn., Reading—Pennsylvania Sewage and Garbage Co., Philadelphia, submitted only bid for garbage disposal plant. About $200,000. C. Marks, City Clk. Noted Aug. 10.

STREETS AND ROADS

Proposed Work

N. H., Claremont—City plans to spend about $20,000 or $25,000 for paving Main St. G. P. Winn, Nashua, Engr.

Conn., Waterbury—R. A. Cairns, City Engr., submitted report estimating cost of improving portion Huntington Ave. at $15,000.

N. Y., Albany—(Official)—State Highway Comn., 55 Lancaster St., receiving bids Sept. 18 for highways in various counties. E. Duffey, Comr. (See adv.)

N. Y., New York—(Brooklyn)—L. H. Pounds, Borough Pres., Borough Hall, receiving bids Sept. 12 for improving portion Ave. J.

N. Y., New York—(Richmond)—C. D. Van Name, Borough Pres., receiving bids Sept. 8 for concrete sidewalks on portion Hart Ave.

N. Y., Utica—City to sell $12,000 bonds for resurfacing streets. J. Kemper, City Engr.

N. J., Atlantic City—Board Comrs., City Hall, receiving bids Sept. 14 for improving portions New Hampshire and other avenues. J. W. Hackney, City Engr. (See adv. Aug. 31 issue).

N. J., Camden—Council passed ordinance to pave portion Princess Ave. L. E. Farnham, City Engr.

N. J. Montclair—City receiving bids Sept. 12 for paving Orange Rd., asphaltic concrete. H. Trippett, Clk. E. S. Closson, City Engr.

N. J., Newark—City plans to pave Mapes Ave. M. R. Sherrard, City Engr.

N. J., Newark—City receiving bids Sept. 21 for paving portion Cedar Ave., Jefferson St. and Elm Rd., asphalt, and Prince St., granite or wood block. M. R. Sherrard, City Engr. Noted Aug. 17.

N. J., New Brunswick—City receiving bids Sept. 1, for curbing and paving about 10 streets, brick, asphalt or warrenite. Bonds for $66,000 to be issued for same. A. A. Atkinson, City Engr.

N. J., Paterson—Board Freeholders Passaic County plan to improve Paget Ave., macadam. Address Clk., Paterson.

N. J., Woodbury—Gloucester County receives bids about Oct. 1 for paving portion Elmer and Hardingville Rd. H. Catell, Wenonah, Engr.

Penn., Canonsburg—Town receiving bids Sept. 11 for curbing and paving South Central, Pitt, Elm and Murdock St. H. M. Day, Engr.

Penn., Carlisle—City plans to pave south College St. H. T. Hiteshew, City Engr.

Penn., New Castle—City plans to improve South Hill St. C. H. Milholland, City Engr.

Penn., New Kensington—City election Nov. 2 to vote on proposition to pave various streets. O. B. Higley, 424 4th Ave., Pittsburgh, Engr.

Penn., Pittsburgh—Allegheny County receiving bids Sept. 21 for improving Wilmerding and Monroeville Extension Rd. and Glass and West Run Connecting Rd. Address County Clk., Pittsburgh.

Penn., Renovo—City plans to pave portion Huron Ave.

Penn., Wilkes-Barre—Council passed ordinance to curb and pave portion Academy St. B. K. Finch, City Engr.

Md., Baltimore—Bd. Awards receiving bids Sept. 13 for paving 28 alleys, concrete. R. M. Cooksey, City Engr.

Va., Hillsville—Carroll County plans election to vote on $200,000 road bonds. Address County Clk., Hillsville.

Va., Salem—Roanoke County receiving bids Sept. 11 for 8 mi. macadam road. G. P. Coleman, Richmond, State Highway Comr.

Va., West Point—See item under "Water-Works." Noted June 1.

W. Va., Beckley—(Official)—Raleigh County to let contracts for about $850,000 worth of roads in spring. Address County Clerk, Beckley. Noted June 15.

W. Va., Cameron—City soon to vote on bonds for paving.

W. Va., Charleston—Kanawha County, Sandy Dist., receiving bids Sept. 23 for 8 mi. road, about $150,000 available. L. C. Massey, Charleston, Clk. County Court. Noted June 8.

W. Va., Moundsville—Council plans to pave portions, Grant Tomlinson and Ash Ave. A. Purdy, City Engr.

W. Va., Parkersburg—Council passed resolution to pave portion Ann St. and alley between Market and Avery and 6th and 7th St. T. L. Higgs, City Engr.

W. Va., Piedmont—City receiving bids Sept. 9 for 3 mi. brick, concrete or asphalt paving. E. S. Smith, Dist. Engr.

Ga., Atlanta—City plans to resurface portion Stewart Ave. H. W. Hurt, City Engr.

Fla., Lakeland—Winter Haven Special Rd. and Bridge Dist. plans election to vote on $300,000 bonds for 47 mi. asphalt road.

Fla., Panama City—Bay County election Sept. 19 to vote on $375,000 highway bonds. Address County Clk., Panama City.

Fla., Tallahassee—Leon County receiving bids Sept. 18 for 34 mi. sand clay road, 81.766 cu.yd. excavation, 5 mi. gravel or broken stone road 2,500-ft. 12- to 36-in. drain and 175 lin.ft. steel bridges. J. W. Jones, County Engr.

Fla., West Palm Beach—Palm Beach County voted $150,000 bonds for road from West Palm Beach to south shore Lake Okeechobee. Address County Clk., West Palm Beach. Noted Aug. 3.

Ala., Gadsden—City plans 2,200 sq.yd. concrete sidewalks. E. Smith, City Engr.

Miss., Carthage—Leake County receiving bids Oct. 1 for about 20 mi. sand and clay roads, $25,000. Address J. A. Walker, Carthage.

Miss., De Kalb—Kemper County making surveys for 50 mi. macadam road to be part of Jackson Highway. Snowden & Hauser, Columbus, Engr.

Miss., Grenada—Grenada County making surveys for 100 mi. road to be part of Jefferson Davis Highway. Snowden & Hauser, Columbus, Engr.

La., Natchitoches—Natchitoches County voted $250,000 bonds for portion Jefferson Highway. Address Clerk, Natchitoches. Noted July 6.

La., New Orleans—City plans to pave Esplanade Ave. W. J. Hardee, City Engr.

Tenn., Greenville—City sold $17,000 street improvement bonds.

Tenn., Lawrenceburg—Lawrence County Highway Comn. receiving bids Sept. 20 for improving Jackson Military Rd., 36 mi. W. H. Rhodes, Lawrenceburg, Highway Engr.

Tenn., Morristown—City receiving bids Sept. 16 for paving and guttering several streets in Impvt. Dist. No. 10, tarvia. C. S. Stephens, Recdr.

Ky., Bowling Green—Warren County Fiscal Court, Bowling Green, plans expenditure of $10,000 for repairing Nashville Pike.

Ky., Louisville—Board Pub. Wks. plans paving Wenzel St. About $4,500.

Ky., Middlesboro—City plans to pave number of streets. J. L. Manring, Mayor.

Ky., Owensboro—Daviess County receiving bids Sept. 9 for improving River and Livermore Rd. J. Weir, Owensboro, County Clk.

Ohio, Ashtabula—Council passed resolution to improve Market St. L. A. Amsden, City Engr.

Ohio, Barnesville—Council passed resolution to pave portion Bond Ave.

Ohio, Bay Village—Town received no bids for purchase $72,267 road bonds. Noted Aug. 10.

Ohio, Bexley—(Columbus post office)—Franklin County receiving bids Sept. 25 for brick and bituminous road between tracks Ohio Electric Ry., Marion Township. Address County Clerk, Columbus.

Ohio, Bexley—(Columbus post office)—Village plans to grade and pave East Main St.

Ohio, Canton—Council passed ordinances to improve portion 15th St. N. E., and 19th St., N. E. W. E. Sarver, City Engr.

Ohio, Cincinnati—W. Boeh, Surv., Hamilton County, estimates cost of improving Rapid Run Pike at $18,443.

Ohio, Cleveland—City receiving bids Sept. 15 for cement sidewalks on Woodland Hill-Garfield Div. of East Blvd. Robert Hoffman, City Engr.

Ohio, Cleveland—City plans to pave portions Ingersoll Rd. and West 105th St. R. Hoffman, City Engr.

Ohio, Columbus—Franklin County receiving bids Sept. 29 for road improvement work per estimate 331. J. Scott, Columbus, Clk. J. Peake, Engr.

Ohio, Greenville—City receiving bids Sept. 12 for improving portion Spring St. K. H. Schmermund, Clk.

Ohio, Hamilton—Council passed ordinance to improve portion North 9th St. F. E. Weaver, City Engr.

Ohio, Lancaster—(Official)—City receiving bids Sept. 14 for paving portion East Main St., brick. J. Griggs, City Engr.

Ohio, Mt. Vernon—(Official)—City receiving bids Sept. 11 for improving portion Mulberry and Catherine St. and West Ohio Ave. W. C. Anderson, City Engr.

Ohio, Newark—City receives bids about Oct. 5 for improving North Ave. and Tuscarawas St., brick. C. H. Wells, City Engr.

Ohio, Oberlin—City made plans for paving East College Ave.

Ohio, St. Clairsville—Belmont County receiving bids Sept. 11 for improving McMahons Creek Rd., about 5.2 mi. B. W. Hopkins, St. Clairsville, Audr.

Ohio, Springfield—City receiving bids Sept. 1 for paving Woodlawn St. M. J. Bahin, City Engr. Noted Feb. 17.

Ohio, Springfield—Council passed ordinances to improve portions Logonda and Sherman Ave. and Columbia St. M. J. Bahin, City Engr.

Ind., Columbus—Bartholomew County receiving bids Sept. 23 for rock road in Rockcreek Township. W. G. Scott, Columbus, Audr.

Ind., Danville—Hendricks County receiving bids Sept. 23 for 12,088 ft. road in Washington Township. C M. Havens, Danville, Audr.

Ind., Huntington—City making plans for paving West Matilda St. P. E. Latchen, City Engr.

Ind., Niles—Council passed resolution to pave portion Warren Ave. H. W. Turner, City Engr.

Ind., Rochester—Fulton and Kosciusko Counties receiving bids Sept. 29 for gravel road between 2 counties. E. A. Smith, Rochester, Audr. Fulton County.

Ind., South Bend—City plans to improve portion Euclid Ave. F. J. Anderson, City Engr.

Mich., Bay City—City plans to pave Water and Harrison St. H. C. Thompson, City Engr.

Mich, Grand Rapids—City plans to pave Wealthy St., about $49,000. W. S. Moore, City Engr.

Mich., Grand Rapids—Bd. Pub. Wks. plans to pave Dickinson St. and Diamond Ave. W. S. Moore, City Engr.

Mich., Mt. Clemens—Macomb County making plans for improving River Rd., Clinton Township. W. D. Reese, Mt. Clemens, Rd. Comr.

Ill., Aurora—City plans to pave portion North Broadway, brick. M. J. Tarble, City Engr.

Ill., Bloomington—City plans to pave Front St., about $16,000. E. H. Packard, City Engr.

Streets and Roads (Continued)

Ill., Carterville—City making plans for about 1½ mi. concrete paving, about $45,000. B. P. Wilson, Marion, Engr.

Ill., Christopher—City making plans for paving various streets, about $50,000. L. T. Putnam, Benton, Engr.

Ill. Galesburg—Council passed ordinance to pave portion Fulton St. F. M. Connolly, City Engr.

Ill., Galesburg—City plans to pave Grand Ave., about $46,512. F. M. Connolly, City Engr.

Ill., Joliet—City plans to pave Willow Ave. C. D. O'Callahan, City Engr.

Ill., Naperville—City made plans for paving, curbing and guttering various streets, about $90,000. C. A. Ashley, City Engr.

Ill., Peotone—Town voted in favor of road tax for gravel or macadam roads.

Ill., Rantoul—City made plans for about ¾ mi. brick paving, about $20,000. G. Fairclo, Court House, Urbana, Engr.

Ill., Sandwich—Board Local Impvts. receiving bids Sept. 11, for curbing, paving and sewers in portion Main and Railroad St., about $13,593. W. B. Shields, 1201 Hartford Bldg. Chicago, Engr.

Ill., Waukegan—City making plans paving, curbing and guttering May. St. and Lenox and Mott Ave., about $16,000. M. J. Douthitt, City Engr.

Ill., Waukegan—City making plans paving, curbing and guttering portion Jackson Ave., brick. M. J. Douthitt, City Engr.

Ill., Waukegan—City making plans paving South Ave. and Oak St., brick, about $33,000. M. J. Douthitt City Engr.

Wis., Elkhorn—City receiving bids Sept. 16 for 45,000 yd. concrete, brick, asphalt or bitulithic paving, 23,000 yd. excavation, 6,000 ft. storm sewers, etc. A. G. Groesbeck, Chmn. Com. St., Alleys and Sidewalks.

Iowa, Ottumwa—City soon receives bids for paving portion West 2nd St. J. F. Brady, City Engr.

Iowa, Pella—City plans about 5 mi. brick paving. A. C. Kuyper, City Clk.

Minn., Gilbert—Town plans to pave 9 streets.

Kan., Augusta—City plans election to vote proposition to pave about 21 blocks with brick. J. R. Switzer. City Engr.

Kan., Olathe—Johnson County receiving bids Sept. 16 for grading and paving west half state line road. W. J. Moore, Olathe, County Clk.

Kan., Wichita—(Official)—City receiving bids Sept. 11 for paving and guttering portion Wabash Ave., brick. B. Wells, City Engr.

Kan., Wichita—Council passed ordinances to improve portions Central Ave. B. C. Wells, City Engr.

Mont., Great Falls—(Official)—City election November to vote on proposition to build 450 mi. gravel and crowned dirt roads. E. A. Smith, City Atty. Noted Aug. 17.

Mo., Cameron—Council passed resolution to pave portion Mead St. including street and alley intersections. C. Staples, City Clk.

Mo., Carthage—City plans to pave 15,000 sq.yd., macadam. F. B. Newton, City Engr.

Mo., Chillicothe—City plans to pave and curb portion Calhoun St. J. O. Broaddus, City Engr.

Mo., Hannibal—City rejected bids curbing and guttering Union St. New bids.

Mo., St. Louis—Bd. Pub. Ser. Room 315, City Hall, receiving bids Sept. 22 for improving portion Bestrehan St., brick, Lanham Ave., bitulithic and Locust St., concrete and asphalt. About $7,450, $5,350 and $58,600. E. R. Kinsey, Pres.

Tex., Canton—Van Zandt County election Sept. 19 to vote on $150,000 road bonds in Precinct No. 3. Address County Clk., Canton. Noted Jan. 13.

Tex., Denton—Denton County plans $200,000 bonds for roads. Address County Clk., Denton.

Tex., El Paso—Council passed ordinance to pave portion Auge St. G. Espy, City Engr.

Tex., Georgetown—Williamson County receiving bids Sept. 11 for about 12 mi. road. W. W. Jenkins. Georgetown, Audr.

Tex., Laredo—Council plans to create improvement district and issue bonds for paving. E. J. Foster, City Engr.

[illegible] Mt. Pleasant—City plans to pave number of streets. H. S. Wilder Co., Mt. Pleasant, Engr.

Tex., Port Arthur—City voted $64,000 bonds for paving Proctor St.

Okla., Wewoka—Seminole County plans election to vote on $250,000 bonds for roads and bridges. Address County Clk., Wewoka.

Idaho, Boise—State Highway Comn. considering plans for improved highways between Lewiston and Boist, about $500,000. E. M. Booth, State Highway Engr.

Idaho, Wallace—City soon receives bids for concrete sidewalks in Impvt. Dist. No. 5.

Utah, Salt Lake City—City receiving bids Sept. 12 for paving Beck St., concrete. S. Q. Cannon, City Engr.

Ariz., Tucson—City plans to improve portion 2d St. and 8th Ave. J. M. Ruthrauff, City Engr.

Ariz., Yuma—Council passed resolution to pave Main St., about 235,000 sq.ft. Bids soon. W. H. Elliott, City Engr. Noted May 4.

Wash., Centralia—City Comrs. passed ordinance to pave Pearl, Plum and Pear St. L. M. Lee, City Clk. Noted Aug. 17.

Wash., Everett—City plans to pave 33rd and Polk St. and Kroner Ave. H. Munn, City Engr.

Wash., Seattle—King County receiving bids Sept. 25 for improving road connecting brick highway at Wayne near Bothell with Juanita Bridge, about $20,000. N. M. Wardell, Seattle, County Clk. A. P. Denton, County Engr.

Wash., Spokane—Bd. Pub. Wks. passed resolution to pave 17th Ave. M. Macartney, City Engr.

Ore., Eugene—City plans to pave about 35,000 sq.yd., concrete. A. Forneri, City Engr.

Calif., Berkeley—City plans to improve Euclid Ave. by paving, curbing and sewering. J. J. Jessup, City Engr.

Calif., Chino—City lets contract about Oct. 1 for 73,290 sq.yd. surfacing on Riverside Dr., Chino Ave. and other streets, about $93,000. P. E. Kressly, City Clk.

Calif., Fresno—Council passed resolution to improve South Angus St. and 2 alleys in Blk. No. 127. B. E. Cronkie, City Engr.

Calif., Oakland—Council passed resolution to pave portion College Ave. P. F. Brown, City Engr.

Calif., San Anselmo—Town Trustees plan to spend about $45,000 for paving.

Calif., San Francisco—City plans election to vote on $15,000,000 road bonds. M. M. O'Shaughnessy, City Engr.

Ont., Mitchell—Council plans sidewalks and curbing Main St. W. Ryan, Clk.

B. C., Victoria—City plans to spend about $12,000 or $14,000 for improving portion Davie St. C. H. Rust, City Engr.

Bids In and Contracts Awarded

Maine, Portland—(Official)—City let contract paving portion Congress St. to MAHONEY CONSTRUCTION CO., 85 Market St., Portland, $1.95 per sq.yd. Noted July 27.

Mass., Boston—City received low bids paving streets in Brighton, Dorchester, East Boston and West Roxbury Dists. from Central Construction Co., 6 Beacon St. $220,606; Bermudez Co., 246 1st St., East Cambridge, $227,776; Warren Bros. Co., 142 Berkeley St., $228,513.

Mass., Boston—Board Pub. Wks. received low bids paving various streets from (a) Group 1, (b) Group 2, as follows: B. E. Grant, 99 West Cedar St., (a) $177,196, (b) $186,375; Coleman Bros., Pearl St., Chelsea, (a) $195,337; Central Construction Co., 228 Southampton St., (a) $21,194; J. Doherty, 133 Calumet St., Roxbury, (a) $189,575; M. De Matteo, 146 Dudley Ave., Roslindale, (a) $198,979. Noted Aug. 10.

Mass., Hamilton—State Highway Comn. awarded contract section State Highway to C. E. WHIPPLE, Hamilton, $6,463.

Mass., Quincy—City received low bid for sidewalks from H. Lavelle. Quincy, $1.32 per sq.yd. Noted July 20.

R. I., Providence—Board Contract and Supply let contract paving Olneyville Sq. to NARRAGANSETT IMPROVEMENT CO., 122 Public St.

Conn., Bristol—(Official)—City let contract curbing Hull St. to S. MASTROBATTISTO. Noted Aug. 24.

Conn., Waterbury—City let contract paving about 3 mi. Thomaston Ave. to CONNECTICUT HASSAM CO. and AMIESITE CO.

N. Y., Eastwood—City let contract paving Midler Ave. to H. WILLIAMSON, Eastwood.

N. Y., New York—(Brooklyn) — (Official)—Contracts for paving awarded to J. J. GUINAN CONTRACTING CO., 777 Fulton St., 84th St., $4,349; BROOKLYN ALCATRAZ ASPHALT CO., 407 Hamilton Ave., 71st St., $9,704, 63rd St., $26,131; UVALDE ASPHALT PAVING CO., 1 Broadway, Manhattan, East 34th St., $4,919, East 34th St., $4,663, Elmore Pl., $6,243; BOROUGH ASPHALT CO., 1301 Metropolitan Ave., Hegeman Ave., $5,457; L. MANGIERI, 190 31st St., Dahlgren Pl., $10,754. Noted Aug. 31.

N. Y., New York—(Richmond)—(Official)—Uvalde Asphalt Paving Co., 1 Broadway. Manhattan, at $95,677, low bidder paving portion Amboy Rd., Specification 'A," and $94,089 for Specification "B." Noted Aug. 24.

N. Y., Schenectady—City let contract paving 13,000 sq.yd. to UNION PAVING CO. and SCHENECTADY CONTRACTING CO., Schenectady. Noted Aug. 10.

N.J., Elizabeth—City let contract repaving Elizabeth Ave. to VAN KEUREN CONTRACTING CO., Prior St., Jersey City, about $49,512. Noted Aug. 17.

N. J., Cliffside Park—Borough let contract improving portion Winterburn Grove Rd. to BERGEN COUNTY CONTRACTING CO., $6,830.

N. J., Garfield—Borough Council let contract improving Ray Ave. to DYER-KANE CO., 12 Lexington Ave., Passaic. about $8,000.

N. J., Irvington—Bd. Comrs. let contract ing, curbing and sewers on 21st St. to NORTH CONSTRUCTION CO., 665 Broad St., New about $22,154.

N. J., Montclair—City received low bid and curbing portion Bellevue Ave. from Os & Marsellis Co., Bellevue Ave., $26,651. Aug. 3.

N. J., Paterson—Passaic County rejected for improving section Greenwood Lake Turn through Haskell and Midvale. Noted Aug.

Penn., Ambridge—City let contract paving den Rd. and Church and 14th St. to R. V. BA WIN, Corapolis, $36,099.

Penn., Fallston—(New Brighton post office)—Borough let contract paving Beaver St. to R. V. BALDWIN CO., $14,150. Noted Feb. 10.

Penn., Kittanning—City let contract paving to G. B. HARRIS, Meadville, about $11,000.

Penn., Philipsburg—Borough let contract paving to G. I. THOMPSON & CO. Noted June 15.

Penn., Pittsburgh—City let contract repaving Otilla St. to M. O'HERRON CO., South 1st and McKean St.

Penn., Uniontown—Fayette County let contract asphaltic surface material road in Menallen Township to MAINWARING & CUMMINGS, Philadelphia.

Penn., Wilkinsburg—City let contract improving Marlboro Ave. to M. O'HERRON CO., South 1st and McKean St., Pittsburgh, $10,444.

Va., West Point—City let contract sidewalks to J. B. McCRARY CO., Atlanta, $7,066.

W. Va., Hamlin—(Official)—Lincoln County let contract Porter Fork Rd., Dubal Township, to M. L. ADKINS, Branchland, $1,600 per mi. Noted Aug. 3.

W. Va., Huntington—City let contracts paving to HARRISON & DEAN, 31st St., $4,384, 9th Ave., $17,616, Jefferson Ave., $17,831, 28th St., $7,733; L. J. GILLESPIE, 11th Ave., $10,864, 11th Ave., $5,339, 10th Ave., $11,542; G. HENKLE, Rockwood Ave., $12,173, 7th Ave., $4,699.

W. Va., New Martinsville—Wetzel County let contract road work in Church Dist. to FLOOD & VAN WIRT CO., Hudson Falls, N. Y. Noted July 20.

Ala., Birmingham—City let contract paving Mountain Terrace to DUNN CONSTRUCTION CO., $11,611.

Ala., Birmingham—City let contract paving portion Clairmont Ave. and 42nd St. to SOUTHERN BITULITHIC CO., Birmingham, $22,988. Noted May 18.

Miss., Columbus—Dist. No. 1 let contract 8 mi. gravel road to R. C. SEARCY & CO., Columbus; 4 mi. to J. M. WELLS, Columbus.

Miss., Laurel—City let contract paving 15 streets to SOUTHERN PAVING CONSTRUCTION CO., Chattanooga, Tenn.

La., New Orleans—(Official)—Highway Dept. let contract improving Monroe-Winnsboro Highway, Ouachita Parish, to WETZEL & CO. Alexandria, $109,634. Noted Aug. 17.

Tenn., Chattanooga—City let contract 42,000 sq.yd. paving to GULF PAVING CO., Chattanooga, $108,000.

Tenn., Lenoir City—City let contract paving portion Broadway and A St. to MURAY CONSTRUCTION CO., Knoxville, $25,000.

Ky., Covington—Kenton County let contract improving Madison Pike to C. HARRIS, $36,000.

Ky., Paducah—(Official)—City let contract paving portion Broadway to G. W. KATTERJOHN, Paducah $14,265. Noted Aug. 10.

Ky., Tompkinsville—State Highway Comn. let contract 3 mi. highway to J. H. NEWMAN, Tomkinsville.

Ohio, Alliance—City let contract paving, curbing and sewer in portion West Summit St. to J. C. DEVINE, $10,822.

Ohio, Bowling Green—Wood County let contract paving Needles Rd. to GAGHAN, McGHEE & STROHL, Custer, $12,000; Winnup Rd., C. D. FINCH, $64,000; Chamberlain Rd., G. E. MERCER, Scotch Ridge, $8,000. Noted June 29.

Ohio, Cincinnati—Hamilton County let contract improving portion Dry Run Rd. to J. FUNKE, 2466 McMicken Ave., $43,426. Noted Aug. 31

Ohio, Cleveland—City let contract improving East Blvd. to STROMAN & BURKE, $5,541. Noted July 27.

Ohio, Defiance—Defiance County let contract improving portion Stanley Rd. to KITTERMAN & BLACKBURN, Mark Center, $21,585.

Ohio, East Liverpool—City let contract paving portion Pennsylvania Ave. to RINEHART BROS.; Summit Lane to J. M. RYAN & SON. Noted Aug. 10.

Ohio, Franklin—City let contract 12,000 sq.yd. paving to BIGLER BROS., Franklin, $2.15. per sq.yd. Noted June 1.

Ohio, Kent—City let contract paving portion Erie St. to HUNT & SON, $5,845.

Ohio, Lakewood—(Official)—City let contract paving Victoria Ave to PACE BROS., Cleveland $9,941. Noted June 29.

Streets and Roads (Continued)

Ohio, Lima—Allen County let contract paving 1¾ mi. Allentown Rd. to H. L. SOLOMON CO., Lima. Noted Apr. 6.

Ohio, London—Village let contract paving South Main St. to ANDREWS ASPHALT PAVING CO., Hamilton, $21,273. Noted Aug. 3.

Ohio, Mt. Gilead—City let contract paving East High and East Marion St. to GRAVES, BARRETT & LEATH, New London. Noted July 13.

Ohio, Napoleon—City let contracts paving to JOHNSON & RITZ, Scott St., $7,980, Filmore St., $12,125, Maple St., $5,048.

Ohio, Oxford—Village let contract paving portion High St. to BROOKS CONSTRUCTION CO., Ft. Wayne, Ind., $30 985. Noted Aug. 10.

Ohio, St. Bernard—(Official)—City let contract improving Broerman Ave. to J. DEMPSEY, Norwood.

Ohio, Salem—City let contract paving Jennings Ave. and East and West Greene St. to J. D. PAXSON. Noted Aug. 17.

Ohio, Springfield—City let contract paving East St. to McHUGH BROS., about $36,000.

Ohio, Springfield—City let contract improving Kenton St. to J. SHEEDY.

Ohio, Toledo—Lucas County let contract paving Tready Rd. to WARNER-McKECHNIE CO., Toledo, $28,469. Noted Aug. 10.

Ohio, Toledo—City let contracts paving and curbing to McKINNEY BROS., 662 Spitzer Bldg., Sugar Ave., $12,728, Eagle Lane $4,908; H. P. STREICHER & CO., 317 Terminal Bldg., Park Ave., Sec. 1, $10,911; HARRIS & TOUSEY, 221 Nasby Bldg., Worthington St., $8,343; H. J. HORAN, 420 Valentine Bldg., alley between Clark and Utah St., $12,407.

Ohio, Youngstown—City let contract paving Oakwood Ave. to VICTOR OLSON CONSTRUCTION CO.

Ind., Kingman—City let contract paving to E. PATTON & SON, Veedersburg.

Ind., Rushville—(Official)—County let contract roads Posey Township to C. E. REDINGTON, Greensburg, $15,615. Noted Aug. 17.

Ind., Vincennes—City let contract paving 9th St. to PREMIER CONSTRUCTION CO., $1.81 per sq.yd.

Mich., Coleman—City let contract improving 4th St. to F. W. BURTON, Kawkawlin.

Mich., Grand Rapids—City let contract paving portion Davis Ave. to HILDING & RABE, $15,889; Bates St., P. VANDER VEEN, $5,087.

Mich., Pontiac—City let contract repairing portion Orchard Lake Ave. to VANDERVEEN CONSTRUCTION CO., Grand Rapids.

Mich., St. Ignace—Mackinaw County let contract graveling east mile Moran Rd. to J. QUINN.

Mich., Wyandotte—City let contract paving to RICE CONSTRUCTION CO., Wyandotte.

Ill., Alton—Alton State Hospital let contract 12,000 sq.yd. paving and 33,000 ft. sidewalks to HOEFFKEN BROS. SUPPLY AND CONSTRUCTION CO., Belleville.

Ill., Catlin—Town let contract brick paving to H. C. FINLEY, Hoopeston, $19,910. Noted Aug. 10.

Ill., Elgin—(Official)—City let contract paving Bluff City Blvd. to McCARTHY IMPROVEMENT CO., Davenport, $12,440.

Ill., Elgin—(Official)—City let contract paving Raymond and Watch St. to LOGAN & GIERTZ CONSTRUCTION CO., Elgin, $39,573.

Ill., Elgin—(Official)—City let contract paving portion Commonwealth Ave. to ILLINOIS HYDRAULIC STONE AND CONSTRUCTION CO., Elgin, $8,503. Noted July 20.

Ill., Knoxville—(Official)—City rejected bids for 10,000 sq.ft. cement road. Noted Aug. 17.

Ill., Marion—City let contract paving Dist. No. 11 to MEYER & THOMAS, East St. Louis, $62,112.

Ill., Peoria—(East Peoria)—City let contract paving East Washington St. to D. A. MEYERS, 209 West Armstrong St., Peoria, $36,000.

Ill., Springfield—(Official)—State Highway Comn. let contracts road work: J. BROGAN, Eldred, Greene County, Sec. "B," $4 491, Sec. "C," $4,528, Sec. "D," $4,515; A. WARD & SON, Oak Glen, Cook County, Sec. "N," $4,692; W. F. LODGE, Monticello, Piatt County. Sec. "C," $11,387; J. D. VOGT, Belleville, St. Clair County, Sec. "B," $4,830, Sec. "C," $7,182, Sec. "D," $5,779.

Ill., Urbana—City let contract paving West Court St. to E. D. MURRAY, Dayton, Ohio, $19,000.

Wis., Appleton—Outagamie County let contract 2 mi. pavement Seymour-Oneida Rd. to GARVEY & WEYENBERG CONSTRUCTION CO., grading Oneida Rd., HAEGEL & CLARK.

Wis., Sheboygan—(Official)—City rejected bids for improving portion Giddings St. New bids next March. J. Donohue, York Bldg., Engr. Noted Aug. 17.

Wis., West Allis—Act. Bd. Pub. Wks. let contract improving portion Beloit Rd. to KROENING CONSTRUCTION CO., Majestic Bldg., Milwaukee. Noted Aug. 24.

Iowa, Clinton—(Official)—City let contract paving, curbing and guttering 5th, 6th, 7th, 8th and 9th St. to T. CAREY & SONS, Clinton, $48,816. Noted July 20.

Iowa, Denison—City let contract 22,000 yd. concrete paving and 11,000 ft. curbing to M. L. FLINN PAVING CO., Sioux City. Noted Aug. 17.

Kan., Chanute—City rejected bids for paving.

Kan., Iola—Allen County let contract paving 6½ mi. road to S. FRY. Noted Aug. 17.

Neb., Kearney—City let contract paving 21st, 22nd and 27th St. to E. D. TYNEI CONSTRUCTION CO., Kansas City. Mo., about $100,000.

Neb., Lincoln—(Official)—Lancaster County let contract paving in Dist. No. 15 to ROBERTS CONSTRUCTION CO., Lincoln, $2.10½ per sq.yd. Noted July 6.

S. D., Mitchell—City let contract 12,049 sq.yd. paving to C. H. ATKINSON, Watertown. Noted Aug. 10.

N. D., Grand Forks—City let contract paving and curbing to GRAND FORKS CONSTRUCTION CO. Noted June 15.

Mo., Independence—County let contract improving Swope Park-Hickman Mills Rd., Sect. 13, to P. A. HARTUNG, 200 Bryant Bldg., Kansas City.

Mo., Kansas City—Jackson County let contract paving to P. HARTUNG, Kansas City, $11,169.

Mo., Kansas City—Jackson County let contract grading and macadamizing Kentucky Ave. to GIDINSKY CONSTRUCTION CO., 3419 Kenwood Ave., $21,000.

Mo., Liberty—City let contract paving and curbing Misouri St. to J. T. CARR CONSTRUCTION CO. Noted June 1.

Mo., Poplar Bluff—City let contract grading 3 streets to H. H. JOLLY, Poplar Bluff. $10,000.

Tex., Dallas—City let contract paving to STANDARD ENGINEERING AND CONSTRUCTION CO., portion Pearl St., $21,039, Scurry St., $5,918; TEXAS BITULITHIC CO., Virginia Ave., $10,223.

Tex., Dallas—City let contract paving Beckley Ave. to STANDARD ENGINEERING AND CONSTRUCTION CO., $48,929, and WESTERN PAVING CO., $15,497. Noted July 13.

Idaho, Boise—City received low bid paving Warm Spring Ave. from E. B. Alsop, $44,059.

Utah, Salt Lake City—City let contract paving several streets to STRANGE & MAGUIRE, $30,019. Noted Aug. 17.

Ariz., Pine Bluff—Low bidders road in Impvt. Dist. No. 15, (a) waterbound macadam, (b) stone and gravel, (c) gravel, (d) bituminous macadam, were: J. A. Perdue & Co., Pine Bluff, (a) $191,518; (d) $214,261; E. Howard, Thorndale, Tex., (b) $200,066; American Construction Co., New Nelson Bldg., Kansas City, Mo., (c) $193,845.

Wash., Seattle—J. L. Smith, 143 21st St., at $23,413, low bidder for sidewalks Division St.

Calif., Berkeley—City let contract curbing, paving and guttering Franklin St. to OAKLAND PAVING CO., 5000 Broadway.

Calif., Berkeley—City let contract sidewalks on University and San Pablo Ave. to OAKLAND PAVING CO., 5000 Broadway, Oakland.

Calif., Burbany—M. T. Shafer, at $40,555, only bidder improving San Fernando Rd.

Calif., Glendale—Rodger Bros Co., Hiberian Bldg., Los Angeles, at $57,800, awarded contracts improving portion Canada Blvd.

Calif., Los Angeles—Bent Bros., Central Bldg., at $127,137, for Proposition "A," and Rogers Bros., at $125,015, for Proposition "B," low bidders for improving Sec. "D" of Mint-Canyon Rd.

Calif., Los Angeles—S. C. Contracting Co., Title Insurance Bldg., at $49,408, low bidder improving portion Mountain Ave.

Calif., Los Angeles—S. C. Contracting Co., Title Insurance Bldg., at $15,444, low bidder improving portion San Antonio Ave.

Calif., Marysville—City let contract paving severla streets to FEDERAL CONSTRUCTION CO., Sharon Bldg., San Francisco. Noted June 22.

Calif., San Francisco—City let contract improving Balboa St. to O. McHUGH, 304 Russ Bldg., $11,841.

Calif., San Francisco—City let contract grading Cabrillo St. to J. H. FRANKS, 639 29th Ave., $8,516.

Calif., San Jose—(Official)—Santa Clara County let contract paving portion Campbell Ave. to RAISCH IMPROVEMENT CO., $6,250. Noted Aug. 10.

Calif., Santa Barbara—Santa Barbara County let contract grading 4.18 mi. Harris-Station-Lompoc County Rd. to R. SHRERER CO., 648 Pacific Electric Bldg., Los Angeles, $18,570.

Calif., Santa Monica—City let contract paving alleys to F. OCKERT, Santa Monica, $12,000.

Calif., Santa Rosa—Sonomo County let contract improving 7 mi. highway to WESTERN MOTOR DRAYING CO., 251 Noe St., San Francisco.

Calif., Ventura—Ventura County let contract improving 8.77 mi. Somas to Santa Clara River Rd., Div. 7, to A. HOLLAWAY, 471 South Broadway, Pasadena, $31,026. Noted Aug. 24.

Ont., Ottawa—City let contract paving Westmount St. to OTTAWA CONSTRUCTION CO., Central Chambers, $5,220.

Ont., Sault Ste Marie—City let contract paving Gore, Bay and Bruce St. to WARREN BITUMINOUS PAVING CO. OF ONTARIO, LTD., Toronto.

INDUSTRIAL WORKS

Proposed Work

N. H., Dover—Beckwith Box Toe Co. making plans for 4-story, 45x10-ft. addition. About $25,000. J. E. Richardson, Masonic Temple, Arch.

N. H., Somersworth—Great Falls Woolen Co. making plans for addition. About $25,000. I. W. Jones, Milton, Engr.

Mass., Chelsea—D. S. Ribock making plans for 1-story, 60x120-ft. garage. About $30,000. S. S. Eisenberg, 5A Everett Ave., Arch.

Mass., Malden—Malden Biscuit Co. making plans for 2-story, 40x80-ft. factory. About $15-000. S. S. Eisenberg, 5 Everett Ave., Chelsea.

Mass., Somerville—Sprague-Hathaway Co., 201 Elm St., plans factory at 58 Dover St. H. M. Haven and W. W. Crosby, 40 Central St., Boston, Engr.

R. I., Shannock—Columbia Narrow Fabric Co. plans addition.

Conn., Bridgeport—J. T. Fisher & Co. made plans for 2-story, 40x90-ft. brick abattoir. Wannenwolsch & Co., 563 William St., Buffalo N. Y., Arch.

Conn., Roxbury—Murray & Sorenson, 352 Pearl St., New York, making plans for factory at Roxbury.

N. Y., Albany—S. Wander & Sons Chemical Co., 75 Church St., plans 3-story, 70x100x127-ft. factory. About $70,000.

N. Y., Buffalo—(East Buffalo)—New York Central R.R. plans to enlarge stockyards. About $100,000. G. W. Kittredge, Grand Central Terminal, New York, Ch. Engr.

N. Y., Buffalo—Transmission Ball Bearing Co. plans plant. W. B. Chambers, Engr. W. J. Murray, Toronto, Ont., Pres.

N. Y., New York—(Brooklyn)—Louis Oxfeld & Sons, 361 Stone Ave., made plans for 1-story, 129x131-ft. garage on Prospect Pl. About $30,000. Cohn Bros., 363 Stone Ave., Arch.

N. Y., New York—(Brooklyn)—J. S. Rourke, 215 Ocean Parkway making plans for 2-story, 90x95-ft. brick factory at Potter Ave. and Cherry St. About $20 000. P. Tillion & Son, 375 Fulton St., Arch.

N. Y., New York—(Manhattan)—P. Lorrillard Co., 119 West 40th St., made plans for 8-story, 198x204-ft. factory. About $500,000. G. Knoche, 516 East 72nd St., Arch.

N. Y., New York—(Queens)—Emerson Motors Co. plans factory at Orton St. and Borden Ave., Long Island City.

N. Y., New York—(Queens)—A. Squires, College Point made plans for 1-story brick factory 6th Ave. and 19th St. About $12,000.

N. Y., New York—(Queens)—Van Iderstein Co. making plans for 5-story, 74x128-ft. rein.-con. factory on Newtown Creek, Long Island City. About $75,000. E. Hahn, Bridge Plaza, L. I., Arch.

N. Y., Penn Yan—Hammondsport Vintage Co making plans for 2-story distillery. About $15,000. C. W. Eldridge, Cutler Bldg., Rochester, Arch.

N. J., Dover—Downs-Slater Foundry Co., Wharton, plans factory on Salem St., Dover.

N. J., Jersey City—Maydrite Products Manufacturing Co. making plans for additions at Bergen and Ege Ave. O. E. Enell, Pres.

N. J., Newark—American Oil and Supply Co., 52 Lafayette St., plans 6-story warehouse on Lafayette St.

N. J., Newark—White Tar Co. plans plant along Hackensack River. B. Walker, Newark, interested.

N. J., North Bergen—H. Goldberg, 314 Angelique St., West Hoboken, making plans for 2-story brick factory at North Bergen. About $10,000. E. Guhl, 19 Charles St., Jersey City, Arch.

N. J., Weehawken—New York Central R.R., 42nd St. and Madison Ave., New York, plans ice house. G. W. Kittredge, Grand Central Terminal, New York, Ch. Engr.

Penn., Ardmore—Auto Car Co. making plans for addition. Stearns & Castor Stephen Girard Bldg., Philadelphia, Arch.

Penn., Creighton—Yost Bros. Co. plans 1-story, 50x100-ft. machine shop and foundry. About $20,000. W. F. Yost, Pres.

Penn., Florin—Backman Chocolate Co. plans 3-story addition.

Penn., Franklin—American Steel Foundries Co. plans addition.

Penn., Lancaster—Lancaster General Hospital making plans for 1-story, 44x55-ft. laundry. About $10,000. M. R. Evans, 10 East Orange St., Arch.

Penn., Lansford—G. Howard Bright, c-o Bright & Co., 506 Penn St., making plans for 1-story, 35x40-ft. garage. About $40,000. F. Muhlenberg, Colonial Trust Bldg., Arch.

Penn., Philadelphia—Bernstein Manufacturing Co. making plans for 2 factory buildings. About $25,000. A. J. Sauer & Co., 908 Chestnut St., Arch.

Penn., Pittsburgh—Pittsburgh Corrugated Paper Box Co. plans rein.-con. factory on East Ohio St., Northside.

Penn., Pittsburgh—Shanahan Transfer and Storage Co. plans warehouse. T. E. Cornelius, 1218 House Bldg., Arch. D. F. Shanahan, Magee and Ann St., Pres.

Industrial Works (Continued)

Penn., Punxsutawney—Punxsutawney Dairy Co. made plans for 2-story plant. About $10,000.

Penn., Sharon—American Steel Foundries Co., Franklin, plans addition.

Penn., Sharon—United States Steel Corporation plans additions at Farrell Works. About $3,000,000.

Penn., Swissvale—F. L. Arensberg plans 45x240-ft. brick plant at Palmer St. and Pennsylvania R.R.

Penn., Topton—Crown Knitting Co. plans 1-story, 62x157-ft. brick and concrete addition.

Penn., Woodstock—(Chambersburg post office)—Chapin Sacks Co. making plans for 2-story plant. About $40,000. C. D. Cooley Co., Century Bldg., Pittsburgh, Arch.

Penn., York—York Ice and Milk Co. plans addition. H. L. Neuman, West Church St., Pres.

Del., Wilmington—Wilmington Steel Co., subsidiary of Midvale Steel Co., plans addition.

Md., Baltimore—F. X. Ganter Co., 13 West Pratt St., receiving bids Oct. 1 for 5-story, 66x156-ft. factory. About $50,000. Noted Apr. 27.

N. C., Henry River—Henry River Manufacturing Co. plans 3-story, 75x150-ft. mill. About $60,000.

S. C., Carhartt—(Rockhill post office)—Hamilton Carhartt, 10th and Michigan St., Detroit, Mich., making plans for 3-story mill and 2 warehouses. N. G. Walker, Arch.

Ky., Frankfort—State Bd. of Prison Comrs. plans 3-story, 50x120-ft. factory.

Ky., Lexington—Forest Lumber Co. making plans for plant. About $200,000. S. E. Patton, Pres. and Mgr.

Ky., Owensboro—Rapier Grain and Seed Co. made plans for 2-story, 50x120-ft. grain elevator. About $10,000. A. Killian, Arch.

Ohio, Cincinnati—Banner Grocers Baking Co., Oak and Stanton Ave., made plans for 1-story addition. About $25,000. C. D. Cooley Co., Century Bldg., Pittsburgh, Arch.

Ohio, Cincinnati—Union Thread Co. making plans for factory and warehouse. About $40,000. H. N. Hooper, New Court House, Arch. Noted Aug. 24.

Ohio, Cleveland—J. L. Adler plans factory on Central Ave.

Ohio, Cleveland—Atlas Car and Manufacturing Co. made plans for 1-story, 120x240-ft. plant. About $60,000. N. S. Ferguson Co., 1900 Euclid Bldg., Arch. Noted July 20.

Ohio, Cleveland—Big Four Tire and Rubber Co. making plans for 3-story, 88x400-ft. factory. W. C. Owen & Co., Leader-News Bldg., Arch. Noted Aug. 31.

Ohio, Cleveland—Imperial Type Metal Co. plans factory on Mulberry St.

Ohio, Cleveland—Sanitary Tinning Co. made plans for 1-story factory. About $50,000. C. D. Cooley Co., Century Bldg., Pittsburgh, Penn., Arch. Noted Aug. 24.

Ohio, Galion—Galion Iron Works Co. made plans for 2-story, 50x85-ft. pattern shop. About $10,000. Althouse, Jones, Citizens Bldg., Mansfield, Arch.

Ohio, Lorain—National Stove Co. making plans for 2-story, 40x125-ft. warehouse. About $20,000. W. J. Carter, 1423 Illuminating Bldg., Cleveland, Arch. Noted Aug. 31.

Ohio, Lorain—National Tube Co. plans 2 openhearth furnaces.

Ohio, Newark—Bucker Wetwash Laundry plans plant. H. Sweet, Toledo, interested.

Ohio, Walnut Hills—(Cincinnati post office)—H. Bultemyer plans dairy on St. James Ave. About $25,000.

Ind., Terre Haute—Terre Haute Paper Co. plans factory. About $300,000.

Mich., Benton Harbor—Chicago Stove and Range Co., Fulton, Ill., plans plant at Benton Harbor.

Mich., Jackson—Aspinwall Manufacturing Co. plans addition.

Ill., Chicago—M. Briskin, 2137 Fowler St., made plans for 2-story shop. About $15,000. Morton Leviton, 155 North Clark St., Arch.

Ill., Chicago—Ford Motor Co., 49 East 39th St., plans 120x300-ft. service station at 4335 Broadway. About $60,000.

Ill., Chicago—G. W. Woodward, 5035 West Madison St., made plans for 1-story, 50x150-ft. garage. About $25,000. D. S. Pentecost, 127 North Dearborn St., Arch.

Ill., Chicago—Wright-Martin Aircraft Corporation plans addition.

Ill., Freeport—W. T. Rawleigh Co. plans plant. About $450,000.

Ill., La Salle—L. V. Orsinger made plans for 1-story addition to bakery. About $18,000. C. D. Cooley Co., Century Bldg., Pittsburgh, Arch. Noted Aug. 3.

Wis., Milwaukee—Munkwitz Realty Co. making plans for 3-story, 60x120-ft. garage. About $35,000. Kirchon Rose, Majestic Bldg., Arch.

Iowa, Atkins—Chicago, Milwaukee & St. Paul Ry. plans roundhouse, machine shop, etc. About $614,000. C. F. Loweth, Railway Exchange Bldg., Chicago, Ch. Engr.

Iowa, Davenport—Iowa Rubber Tire Co. plans factory. J. W. Bettendorf, of Bettendorf Car Works, Bettendorf, interested.

Iowa, Ft. Madison—Artesian Ice Co. plans 1-story storage building. G. Little, Hamilton and Walker St., Mgr.

Iowa, North McGregor—Chicago, Milwaukee & St. Paul Ry. plans engine house, machine shop, warehouse, etc. About $570,000. C. F. Loweth, Railway Exchange Bldg., Chicago, Ch. Engr.

Minn., St. Paul—City Terminals and Warehousing Co. plans warehouses. About $1,000,000.

Minn., St. Paul—L. C. Erbes plans addition to factory at 2654 University Ave. About $75,000.

Minn., Winona—E. S. La France, Pekin, Wis., made plans for 2-story factory at Winona. About $25,000. E. A. Muhre, Choate Bldg., Winona, Arch.

Kan., Arkansas City—Milliken Refinery Co., Merchants Exchange Bldg., St. Louis, Mo., plans refinery at Arkansas City. About $1,000,000.

N. D., Minot—Armour & Co., Union Stock Yards, Chicago, plans 3-story plant at Minot.

Mont., Trident—Securities Cement Co., Denver, Colo., has taken over the plant of the Three Forks Cement Co., Trident, and plans to enlarge and improve same.

Mo., Cape Girardeau—J. A. Rigdon, 18 Aquamsi St., plans 2-story, 45x125-ft. laundry.

Ark., Little Rock—Central Supply Co., 120 Scott St., plans 4-story warehouse. About $40,000.

Tex., Stamford—Wotten Grocery Co. plans warehouse. About $20,000.

Wash., Seattle—Pacific Coast Bolt Co. plans plant on West Waterway. About $50,000.

Calif., Fresno—Cudahy Packing Co. made plans for 1-story brick packing house. About $20,000.

Calif., Oakland—Atlas-Imperial Engine Co. plans 80x250-ft. addition. About $25,000. A. Warenskjold, Pres.

Calif., Oakland—W. M. Greuner, Grant Ave., made plans for 2-story garage. About $25,000.

Calif., San Francisco—G. H. Umbsen making plans for garage on Sutter St. near Taylor St. About $20,000. A. G. Headman, Arch.

Ont., Forest—Lambton Flax Mills Co. plans 3 mills. About $75,000. H. Fraleigh, Mgr.

Ont., London—London and Port Stanley Ry. plans grain elevator. About $100,000. J. E. Richards, London, Treas. and Mgr.

Ont., Toronto—Harry Webb Co., Kendal Ave., plans factory. About $78,000.

Sask., Saltcoats—Saltcoats Flour Milling Co. plans to rebuild factory.

Bids In and Contracts Awarded

Maine, Bar Mills—National Fibre Board Co. let contract 2-story, 56x128-ft. factory to FISKE-CARTER CONSTRUCTION CO., 11 Foster St.

Maine, Winslow—Hollingsworth & Whitney Co. let contract addition to PROCTOR & BOWIE CO., Winslow.

N. H., Manchester—F. R. Atwood Box and Wood Manufacturing Co. let contract 1-story, 20x40-ft. factory to W. N. CRANES, Henniker, $40,000. Noted June 22.

N. H., Nashua—Asbestos Wood Co., Bridge St., let contract 1-story, 38x239-ft. addition to D. F. HOLT & SON, 282 Main St.

N. H., Nashua—Nashua Manufacturing Co., Factory St., let contract 4-story addition to NASHUA BUILDING CO., Temple St.

Mass., Abington—New York Photo Co. let contract 2-story, 40x125-ft. factory to McDONALD & KIVELL, 153 Milk St., Boston.

Conn., Bridgeport—American Chain Co. let contract addition on Connecticut Ave. to T. J. PARDY CONSTRUCTION CO.

Conn., Bridgeport—American Graphophone Co., 440 Hancock Ave., let contract 1-story, 70x200-ft. factory to S. AUSTIN & SONS CO., 416 Newfield Bldg.

N. Y., Buffalo—Excelsior Steel Ball Co. let contract 1-story, 50x115-ft. addition to BUFFALO STRUCTURAL STEEL CO., 106 Dart St. About $20,000.

N. Y., Canisteo—Up-To-Date Advertising Co. let contract addition to W. E. ADAMS, 61 4th St.

N. Y., New York—(Brooklyn)—Blecher Bros., 49 Nostrand Ave., let contract for 3-story brick addition to MEYER & SWEENEY, 384 Crown St. About $10,000.

N. Y., New York—(Brooklyn)—Chester Knitting Mills, 88 Junius St., let contract 4-story, 50x100-ft. factory to L. LAPIDUS, 850 Hopkinson Ave. About $25,000. Noted Feb. 3.

N. Y., New York—(Brooklyn)—McKeeson & Robbins, 91 Fulton St., let contract 6-story, 100x100-ft. rein.-con. factory at North 11th and Berry St. to INDUSTRIAL ENGINEERING CO., 30 Church St., Manhattan. About $105,000. Noted June 15.

N. Y., New York—(Brooklyn)—McNeil Iron Works let contract 1-story brick factory at 147 Imley St. to VINCENT SCALA, 73 Carroll St. About $10,000. Noted July 20.

N. Y., New York—(Manhattan)—Mallory Steamship Co. let contract 2-story warehouse and office building to J. MONKS & SONS, 82 Beaver St. About $50,000.

N. Y., New York—(Manhattan)—Tauber Ryttenburg Knitting Co., 78 Leonard St., let contract factory to E. J. & M. MANGAN, Pottsville, Penn.

N. Y., Rochester—G. W. Chesbrough, 107 St St., let contract 1-story, 50x75-ft. factory to F. SCHUBMEHL, 495 Bernard St. About $10,0

N. Y., Rochester—Clark Paper and Manufac ing Co. let contract masonry for warehouse to STRAUCHEN, 309 Portland Ave. About $30,0 Noted Aug. 10.

N. Y., Schenectady—General Electric Co. let contract 1-story turbine manufacturing building No. 60 to S. AUSTIN & SONS CO., 14230 Euclid Ave., Cleveland, Ohio.

N. Y., Utica—Utica Warehouse Co. let contract 1-story, 100x400-ft. warehouse to GRIFFITH & PIERCE, 618 Charlotte St. About $100,000.

N. Y., Watertown—Hahn Paper Co. let contract storehouse and machine shop to WILLIAM CHARLEBOIS, Otis Bldg. About $15,000.

N. Y., Wellsville—Moore Steam Turbine Co. let contract 1-story plant to S. AUSTIN & SONS CO., 14230 Euclid Ave., Cleveland, Ohio. Noted Aug. 3.

N. J., Bloomfield—Sprague Electric Works, subsidiary of General Electric Co. let contract 5-story addition to J. W. FERGUSON, United Bank Bldg., Paterson. About $750,000. Noted July 27.

N. J., Delawanna—Minwax Co., 18 East 41st St., let contract 1-story, 150x150-ft. factory to J. J. O'LEARY CO., 500 Bloomfield Ave., Passaic. About $25,000. Noted July 6.

N. J., Jersey City—Swift Co., 9th St., let contract 4-story, 60x68-ft. cooperage plant to BLOME, SINEK CO., 139 North Clark St., Chicago. About $25,000.

N. J., Maurer—Barber Asphalt Paving Co. let contract 2-story, 60x165-ft. warehouse to NATIONAL ENGINEERING CORPORATION, Lowell, Mass. About $27,000. Noted Aug. 31.

N. J., Perth Amboy—Perth Amboy Manufacturing Co. let contract 2-story, 70x70-ft. factory to I. R. CROUSE, 495 State St. About $15,000.

Penn., Ephrata—United Cigar Co. let contract 4-story, 38x86-ft. brick addition to A. L. GERHART.

Penn., Franklin—Comrs. Venango County let contract 1-story, 30x75-ft. laundry to H. W. LONG, Franklin. About $10,000. Noted Apr. 13.

Penn., Marcus Hook—Congoleum Co. let contract plant to W. W. LINDSAY & CO., Harrison Bldg., Philadelphia $119,000. Noted Mar. 16.

Penn., Philadelphia—E. M. Harris, let contract 3-story brick and rein.-con. warehouse at 33rd and Arch St. to IRWIN & LEIGHTON, Philadelphia. About $100,000.

Penn., Philadelphia—D. M. Ellis, Narberth, let contract for 2-story, 24x30-ft. factory at Philadelphia, to ROBERT BROS., 2422 Palethorp St. About $12,000.

Penn., Philadelphia—J. Morrell & Co., 418 New Market St., let contract 3-story, 50x120-ft. rein.-con. packing house at Darien and Noble St. to J. N. GILL & CO., 1215 Filbert St.

Penn., Philadelphia—J. J. Wolf,, 927 North 5th St. let contract 2-story, 36x133-ft. brick, stone and concrete bottling plant to PHILIP HAIBACH CONTRACTING CO., 26th and Thompson St. About $50,000. Noted Aug. 3.

Penn., Pittsburgh—Fisk Rubber Co., 5933 Baum Blvd., and Pittsburgh & Paige Motor Co., 416 North Craig St., let contract 2-story garage and salesroom to J. L. STUART, 233 Oliver Ave. About $100,000.

Penn., Pittsburgh—White Co., Craig and Baum Blvd., let contract 2-story garage and salesroom to J. L. STUART, 233 Oliver Ave. About $50,000.

Penn., Vernon—Pittsburgh Cold Rolled Steel Co., 39th St. let contract plant to McCLINTIC MARSHALL CO., Oliver Bldg., Pittsburgh.

Miss., Vicksburg—Anderson-Tully Co. let contract mill to BURKES CONSTRUCTION CO., Hattiesburg. About $25,000. Noted May 18.

Ohio, Cleveland—K. V. Painter, 3240 Fairmont Blvd., Shaker Heights, let contract 1-story, 73x192-ft. factory to FERGUSON FLANIGAN CO., Vickers Bldg., Cleveland. About $20,000.

Ohio, Cleveland—J. Vojeski, 2738 East 9th St. let contract 2-story addition to laundry to A. HULET, 15279 Saranac Rd.

Ohio, Elyria—Prestell Co. received lowest bid for 1-story factory from A. Graupner, 1010 A St. About $30,000.

Ohio, Youngstown—Brier Hill Steel Co. let contract 100-ton openhearth furnaces to LACKAWANNA BRIDGE CO., Buffalo. About $700,000. Noted Aug. 17.

Ohio, Youngstown—Trussed Concrete Steel Co. let contract addition to plant to HUNTER CONSTRUCTION CO., Youngstown. Noted May 4.

Ind., Indiana Harbor—American Steel Foundries Co., let contract 1-story, 100x178-ft. forge shop to SUMNER SOLLITT CO., 79 East Adams St., Chicago.

Ind., Indianapolis—National Motor Vehicle Co. let contract 3-story addition at 22nd St. and Monon R.R. to BEDFORD STONE AND CONSTRUCTION CO., 810 Fletcher Savings and Trust Bldg., Indianapolis. Noted Sept. 30.

Ind., Indianapolis—Warehouse Realty Co. let contract 5-story, 70x140-ft. warehouse to HALL-CURRY CONSTRUCTION CO., 807 Bd. Trade Bldg. About $80,000.

Mich., Adrian—Adrian Steel Castings Co. let contract rebuilding factory to C. E. DIBBLE, 13 East Butler St. About $20,000. Noted Aug. 24.

Industrial Works (Continued)

Mich., Detroit—Palace Model Laundry Co. let contract 3-story, 30x130-ft. addition to CULBERTSON & KELLY, 814 Ford Bldg.

Mich., Grand Rapids—Consumers Ice Co. let contract 1-story plant to J. McNABB & SONS, Murray Bldg. About $60,000. Noted May 11.

Mich., Muskegon Heights—Enterprise Brass Works let contract 3-story, 50x150-ft. machine shop to J. H. SMITH, Murray Bldg., Grand Rapids, Mich. About $35,000.

Ill., Assumption—Lacharite Grain Co. let contract elevator to YOUNGLOVE CONSTRUCTION CO., United Bank Bldg., Sioux City, Iowa. About $14,000. Noted July 13.

Ill., Chicago—Armstrong Bros. Tool Co. let contract addition to ANDERSON, STRANDBERG CO., 19 South La Salle St. About $50,000.

Ill., Chicago—Kedzie Foundry Co. let contract 1-story, 40x200-ft. foundry to HOEFFLER & CO., 53 West Jackson Blvd. About $20,000.

Ill., Chicago—Variety Manufacturing Co., 2942 Carrol Ave., let contract masonry for 3-story addition to PETER OLSEN CO., 19 South La Salle St.

Ill., Downers Grove—F. W. Simpson, 11 Merchants Bank Bldg., Aurora, will build 3-story, 50x100-ft. addition at Gowners Grove by day labor.

Ill., North Chicago—Brown Portable Elevator Co. let contract addition to NORTHERN ILLINOIS INDUSTRIAL CO., North Chicago.

Wis., Beloit—Chesborough & Moss Co. let contract 2-story warehouse to W. FITZGERALD, Pleasant St., Beloit. About $16,000. Noted Aug. 3.

Wis., Milwaukee—Chicago, Milwaukee & St. Paul Ry. let contract grain elevator to R. H. FOLWELL, 332 McCormick Bldg., Chicago. About $100,000.

Minn., St. Paul—Specialty Manufacturing Co. let contract 2-story, 60x114-ft. factory to ALBINSON CONSTRUCTION CO., Plymouth Bldg., Minneapolis. About $20 000. Noted Aug. 17.

Minn., South St. Paul—Swift & Co. let contract for plant to BUTLER BROS., 1002 New York Life Bldg., St. Paul. About $150,000.

Minn., Winona—S. L. Prentise let contract 2-story garage to MADSEN CONSTRUCTION CO., Plymouth Bldg., Minneapolis. About $30,000.

Kan., Topeka—A. Marburg, 931 Harrison St., let 1-story addition to printing plant at 633 Jackson St. to METZ & HARKNESS, 302 Taylor St. About $10,000. Noted July 20.

Neb., Omaha—Home Builders, Brandeis Theater Bldg., let contract 2-story 40x66-ft. printing house on 18th St. to BUSK & WIND, 543 Range Blk. About $10,000.

Mont., Billings—Yellowstone Packing Co. let contract rein.-con. warehouse to GAGNON & CO. About $60,000. Noted Dec. 30.

Mo., Kansas City—Board Education let contract 11-story, 14x104-ft. warehouse and shop to A. G. HARPER, 1930 Indiana Ave.

N. M., Las Vegas—Atchison, Topeka & Santa Fe Ry. let contract roundhouse to C. A. FELLOWS, Los Angeles, Calif., $150,000. C. F. W. Felt, Railway Exchange Bldg., Chicago, Ch. Engr.

Wash., Seattle—American Can Co. let contract plant to A. W. QUIST & CO., Hope Bldg., Seattle, $250,000. Noted June 15.

Calif., Orange Cove—Orange Cove Citrus Association let contract packing plant to F. J. GEISER. Noted June 29.

Ont., Niagara Falls—Pollard Manufacturing Co., Ferguson Ave., let contract brick and steel foundry to SNYDER & GILLETT, Niagara Falls.

Alta., Edmonton—Canadian Northern Ry. let contract brick and concrete machine shop and storehouse to E. N. NESBIT, 10041 118th St. About $55,000.

FEDERAL GOVERNMENT WORK

Proposed Work

Maine, Skowhegan — Post Office — Treasury Dept., Superv. Arch. Office, Washington, D. C., receiving bids Oct. 6. J. A. Wetmore, Act. Superv. Arch.

N. H., Berlin—Post Office—J. A. Wetmore, Act. Superv. Arch., Treas. Dept., Washington, D. C., receiving bids Oct. 5.

Mass., Buzzards Bay—Removal of Wreck—U. S. Engineer Office, Newport, R. I., receiving bids Oct. 2 for removal of wreck of "Yankee" in Buzzards Bay. (See adv.)

Mass., Ft. Warren—Road—Quartermaster, Ft. Warren, receiving bids Sept. 21.

Mass., Pocasset — Building — Lighthouse Inspector, Boston, receiving bids Sept. 21, for signal house, Wing's Neck Light Station.

Penn., Philadelphia—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Sept. 11, alterations. Noted July 27.

D. C., Washington—Cement Sidewalks—Dist. Comrs. receiving bids Sept. 15. O. P. Newman, Comr. (See adv.)

Va., Norfolk—Dry Dock—Navy Dept. soon receives bids, Norfolk Navy Yard. About $3,500,000. Noted May 25.

W. Va., Buckhannon—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Oct. 12.

W. Va., Wheeling—Lock and Dam—F. H. Jackson, U. S. Engr., Wheeling, soon receives bids for lock and dam at Ohio River below Little Guyandot River, at Millwood and Point Pleasant. Locks about $600,000 each.

Ky., Louisville—Gate Valves—U. S. Engineer Office receiving bids Sept. 23, Lock No. 41, Ohio River. (See adv.)

Ill., Chicago—Timber Crib Breakwater—U. S. Engineer Office, 508 Federal Bldg., Chicago, receiving bids Sept. 26, Chicago Harbor. (See adv.)

N. D., Dickinson—Post Office—J. A. Wetmore Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Oct. 16. Noted Apr. 13.

Calif., Los Angeles—Cement—Maj. Pillsbury, Corps Engr., U. S. A., 723 Central Bldg., receiving bids Sept. 15 for 18,500 bbl. cement, 11,000 tons sand and 22,000 tons crushed stone for Ft. MacArthur, San Pedro Harbor.

Calif., San Francisco—Water System—Constructing Quartermaster, Ft. Mason, receiving bids Sept. 18, at Presidio.

Calif., Vallejo—Crane—Navy Dept. making plans for 250-ton floating crane for Mare Island Navy Yard. Bids soon received. About $600,000.

Panama—Miscellaneous Supplies—General Purchasing Officer, Panama Canal, Washington, D. C., receiving bids Sept. 21.

Bids In and Contracts Awarded

Maine, Rumford—Post Office—U. S. Government let contract to NEWPORT CONTRACTING AND ENGINEERING CO., Newport News, Va., $53,700. Noted Aug. 31.

N. Y., New York—Pumping Plant—U. S. Government let contract, Appraiser's Stores building, to ALMIRALL & CO., 1 Dominick St., New York, $6,590.

D. C., Washington—Air Compressors—Bureau of Supplies and Accounts, Navy Dept., received bids under Schedule 9981 as follows: Norwalk Iron Works, South Norwalk, Conn., $2,600 each; Sullivan Machinery Co. Chicago, $3,894 each; Platt Iron Works, Dayton, Ohio, $4,590 each; Worthington Pump and Machinery Co., 115 Broadway, New York, $4,950; Ingersoll-Rand Co., 11 Broadway, New York, $4,680 each; General Ordnance Co., Groton, Conn., $6 525 each. Noted Aug. 10.

N. C., Burlington—Post Office—Government rejected bids received Aug. 11 for post office. Noted Aug. 17.

Tenn., Nashville—Post Office—J. A. Wetmore, Superv. Arch., Treasury Dept., Washington, D. C., received bids, alterations, from Norman Ker Co., New York, $347,400; R. P. Farnsworth, Owensboro Ky., $349.300; G. E. Wyne, Washington, D. C., $366,800. Noted July 13.

Ohio, Ashland—Post Office—Low bids received Aug. 25, (a) limestone, (b) sandstone, from West Chester Engineering Co., White Plains, N. Y., (a) $91,250, (b) $98,000; James Devault, Canton, (a) $94,500, (b) $98,500; J. G. Unkefer & Co., Minerva, (a) $94,566, (b) $100,316. Noted July 27.

Ohio, Newark—Post Office—U. S. Government let contract to T. W. CISSEL, Wooster, Ohio, $103,400. Noted Aug. 24.

Ill., Great Lakes—Filter Plant—Low bids received Aug. 26 for filter plant at Naval Training Station, (a) Government's specifications, (b) bidder's specifications, from, International Filter Co., Chicago, (b) $5,425; Pittsburgh Filter Manufacturing Co., Pittsburgh, (a) $5,700, (b) $5,700; New York Continental Jewell Filtration Co., New York, (a) $6,466, (b) $6,101. Noted Aug. 10.

Wyo., Powell—Canal Work—U. S. Reclamation Service received low bids Aug. 18 for canal system on 2d unit of Frannie Division, Shoshone Project, (a) Schedule 1, (b) Schedule 2, (c) Schedule 3, (d) Schedule 4 from Hoyt Hayden, Great Falls, Mont., (a) $25,500, (b) $15,750, (c) $30,940, (d) $41,500; G. P. Wright, Tacoma, Wash., (a) $27,084, (c) $32,257, (d) $40,145; Tebbs & Taggart, Cowley, (b) $15,823; J. E. Hilton, Billings, Mont., (a) $26,020, (b) $15,720, (c) $34,270, (d) $42,260. Noted July 20.

Mont., Malta—Earthwork—U. S. Reclamation Service let contract, Nelson Reservoir, South Canal, Milk River Project, to J. O'CONNOR and J. T. WHALEN, Malta, $108,352. Noted Aug. 31.

N. M., Carlsbad—Earthwork—U. S. Reclamation Service let contract, McMillan Reservoir spillways, to J. MULLIGAN, El Paso, Tex., $45,452. Noted Aug. 17.

Calif., San Francisco—Pipe Line—Navy Dept. received only bid for submerged pipe line at Naval Training Station from T. Crowley, Embarcadero St., 4-in. pipe, $19,913, 6-in. pipe, $26,967. Noted Aug. 10.

CANALS, DITCHES AND IRRIGATION

Proposed Work

Fla., Bartow—Drainage—City plans drainage and canal systems connecting 20 lakes. About $25,000 and $15,000 respectively.

Tenn., Paris—Drainage—District being formed to drain about 100,000 acres along Big Sandy River. Address W. I. Dale, Paris, Clk. County Court.

Ill., Highland Park—Drainage—Drainage Dist. No. 1 making plans for drainage work. C. E. Russell, Court House, Waukegan, Engr.

Ill., Quincy—Drainage—Indian Grave Drainage Dist. will sell $300,000 bonds for system of diversion channels. W. A. Grieser, Chn. Comrs.

Iowa, Boone—Drainage—Bd. Superv. receiving bids Sept. 11 for Drain No. 134, Harrison Township. Address Clk., Boone.

Iowa, Ft. Dodge—Drainage—County receiving bids Sept. 14 for Drain No. 238. About $13,570. J. L. Hanrahan, Ft. Dodge, County Audr.

Iowa, Ft. Dodge—Ditch—Webster County plans drainage ditches. About $430,000. J. H. Hanrahan, Ft. Dodge, County Audr.

Iowa, Harlan—Drainage—Shelby County soon receives bids for Drainage Dist. No. 9, Fairview Township. About $40,000. E. Shell, Harlan, County Audr.

Iowa, Knoxville—Drainage—County receiving bids Sept. 11 for 1,750 ft. 12-in. tile drain. J. T. Schlotterback, Knoxville, County Audr.

Minn., Ada—Ditch—Norman County Comrs. plan. Lockhart Township. Address County Clk., Ada.

Minn., Buffalo—Ditch—Wright County receiving bids Sept. 11 for Ditch No. 30. J. A. Berg, Buffalo, County Audr.

Minn., Cambridge—Ditches—Isanti County receiving bids Sept. 14 for County Ditch No. 11, 59,928 cu.yd., $8,958; County Ditch No. 13, 79,867 cu.yd., $12,137; County Ditch No. 15, 63,470 cu.yd., $8,944. G. C. Smith, Cambridge, County Audr.

Minn., Moorehead—Ditches—Clay County plans Ditches Nos. 26, 27 and 38. About $27,871. Address County Clk., Moorehead.

Minn., Moorehead—Ditch—Clay County plans Ditch No. 39. About $39,000. Address County Clk., Moorehead.

Mo., Cottleville—Cottleville Drainage Dist. receiving bids Sept. 12 for drainage ditches in Dardenne Creek bottoms. M. L. Currier, Pres. T. N. Jacob, Cahokia Bldg., East St. Louis, Ill. Consult. Engr.

Ark., Pine Bluff—Drainage—Drainage Dist. No. 7, Jefferson County, retained Parkes Engineering Co., Pine Bluff, to make plans for draining about 8,000 acres.

Tex., McKinney—Reclamation—Collin County voted $41,000 bonds for reclaiming lands in Pilot Creek. Address County Clk., McKenney.

Ore., Lakeview—Reclamation—Lake and Wasco Counties making plans for reclamation work. About $1,726,000. J. H. Lewis, Salem, State Engr.

Ore., Vale—Drainage—Warm Springs Irrigation Dist. will issue $750,000 bonds for dam and improving distribution system.

Calif., Merced—Drainage—Atwater Drainage Dist. making plans to drain about 2,000 acres. G F. Morell, interested. Noted June 15.

Calif., Riverside—Irrigation—California Farm and Irrigation Co., San Francisco, applied to State Water Comn. for permission to appropriate waters of Colorado River to irrigate about 60,000 acres to be known as Palo Verde Irrigation Canal. About $2,300,000.

Bids In and Contracts Awarded

Mich., Hastings—Drainage—County Drain Comr. let contract Second Lake Drain to WOOLMAN CONSTRUCTION CO., Port Huron, $9,000.

Ill., Quincy—Pumping Station—Comrs. Fabius Drainage Dist. let contract to G. T. CROUCH, Hannibal.

Iowa, Clarinda—Ditch—Contract Johnson Run Ditch let to R. F. MORROW, Omaha, Neb.

Iowa, Forest City—Ditch—Bids received for Drain No. 61 rejected. C. K. Nelson, County Audr. Noted Apr. 13.

Iowa, Muscatine—Levee—Drury Drainage Dist. rejected bids for rebuilding protecting levee. About $60,000. Noted July 27.

Minn., Litchfield—Ditch—A. Polquist, County Audr., let contract Judicial Ditch No. 3, 141,742 cu.yd., to G. E. BROWN, Litchfield, at 11c. per cu.yd.

Minn., St. James—(Official)—Ditch—Watonwan County rejected bids received Aug. 15 for Judicial Ditch No. 11. J. C. Jensen, St. James, County Audr. Noted Aug. 10.

Neb., Rushville -- (Official)—Drainage—Horseshoe Lake Drainage Dist. let contract cleaning water course and ditch construction to F. M. CRANE CO., City National Bank Bldg., Omaha. About $20,000. Noted Aug. 3.

Wash., Seattle—Drainage—Drainage Dist. No. 4, 715 New York Blk., let contract draining 100 acres in Issaquah Valley to CHAMBERLAIN CONSTRUCTION CO., Globe Blk., $10,364. Noted Aug. 24.

Calif., Lindsay—Irrigation—Lindsay Strathmore Irrigation Dist. let contract to J. KENNEDY, Los Angeles, $1,231,240. Noted Aug. 3.

Calif., Stockton — Reclamation — Reclamation Dist. No. 999 let contract reclamation work to CALIFORNIA DELTA FARMS CO., $600,000.

Calif., Woodland—Pumping Station—Board Dir., Reclamation Dist. No. 1600 let contract pumping station to YUBA CONSTRUCTION CO., Marysville. About $23,147.

Que., Three Rivers—Dredging— Canadian Government let contract, to LA COMPAGNIE GENERALE D'ENTREPRISES PUBLIQUES, P. O. Box 148, Levis.

MISCELLANEOUS

Proposed Work

N. H., Nashua—Comfort Station—City making plans. W. T. Towner, 366 5th Ave., New York, Arch. G. P. Winn, City Engr.

Mass., Fall River—River Improvements—Quequechan River Comn. retained H. K. Barrows, Consult. Engr., 6 Beacon St., Boston, to make plans for improving Quequechan River. Noted Feb. 17.

N. Y., New York—(Bronx)—Amusement and Exposition Park—West Farms Amusement Park Co. making plans. About $1,500,000. K. M. Murchison, 101 Park Ave., Arch. Noted May 25.

N. J., Longport—Seawall—City Comn. retained Case Coast Construction Co. to make plans, concrete, 1 mi. long. About $275,000.

N. J., New Brunswick—Natatorium—Alexander Merchant, Arch., 363 George St., making plans, 2-story, 25x85-ft. About $10,000.

Penn., Brownsville — Undergrade Crossing — Monongahela Ry. plans. About $30,000. D. K. Orr, Brownsville, Ch. Engr.

Penn., Cambridge Springs—Comfort Station—City plans Marcy Park.

Penn., Erie—Monument—Perry Victory Com. of Pennsylvania receiving bids about Sept. 15. E. Sisson, 722 State St., Chn. J. Windrim, Commonwealth Bldg., Philadelphia, Arch.

Penn., Erie—Retaining Wall—City making plans for retaining wall of subway and paving of streets. Faulkner G. Lynch, City Engr.

Penn., Linwood Station—Fire House—Linwood Heights Fire Co. making plans, 2-story, 25x50-ft. About $6,000. G. R. Shephers, Arch.

Md., Cumberland—Subway—Baltimore & Ohio Railroad Co. plans, Green St. About $70,000. F. L. Stuart, Baltimore. Ch. Engr.

Va., Arlington — Memorial Monument — Ladies Auxiliary A. O. H. made plans. About $50,000. E. R. Jolly, 59 West Ave., Pawtucket, R. I., Chn.

N. C., Hendersonville—Dam—C. Gresham plans, Kanuga Lake.

Ga., Tallulah Falls—Wireless Station—Georgia Railway and Power Co. plans wireless station at Tallulah Falls power plant. A. D. Whitteeker, Jr., interested. G. W. Brine, Electric and Gas Bldg., Atlanta, Vice-Pres. and Gen. Mgr.

Fla., Clearwater—Dock—City Council plans dock to extend 600 ft.

Fla., Tampa—Dock—City making plans, 300 ft R. D. Martin, City Engr.

Ala., Dauphin Island—Docks—State Harbor Bd. plans. A. G. Ward, Chn.

Miss., Pass Christain—Seawall—Plans approved for concrete seawall and rein.-con. revetment, 13,200 ft. About $150,000. Address City Clk.

Ohio, Cincinnati—Ice Rink—Springer-Wood Co. plans, Gilbert Ave. H. C. Wood, interested. M. R. Carpenter, Arch.

Ohio, Cleveland—Truck—City plans to purchase 8-ton auto truck. R. Hoffman, City Engr.

Ohio, Dayton—Dam—City Comrs. will issue $43,000 bonds, Island Park. F. O. Eichelberger, City Engr. Noted Aug. 24.

Ohio, Defiance—Elimination Grade Crossing—City plans, Perry St. V. D. Weinsenburger, City Clk.

Ohio, Euclid—Park Site and Bathing Beach—Village votes in November on $200,000 bonds. N. J. Brewer, Village Atty.

Ohio, Mansfield—Swimming Pool—City plans. North Park. G. H. Lowrey, Mayor. O. Hursh, Serv. Dir.

Ohio, New Philadelphia — Elimination Grade Crossing—City plans eliminating grade crossing over Pennsylvania Lines West of Pittsburgh at North 7th St. G. E. Arnold, City Engr.

Ohio, Painesville—Retaining Wall—Lake County plans, bank Grand River. About $40,000.

Ind., Huntington—Fire Station—City plans. P. E. Latchen, City Engr.

Ind., Indianapolis—Widening Creek—City making plans for widening Fall Creek. B. J. T. Jeup, City Engr.

Mich., Battle Creek—Comfort Stations—City made plans, 1 in McCamly Park and other at Jackson and Madison St. E. W. Arnold, Arch.

Mich., Detroit—Bath House—Park Comrs. plan addition to Belle Isle Bath House. About $200,000. W. T. Dust, Park Comr.

Mich., Detroit—Grade Separation—Michigan Central R.R., Pere Marquette R.R. and Wabash Railway Co. plan, on west side. About $2,000,000. E. M. Walker, Passenger Terminal Station, Detroit, Grade Separation Engr. Michigan Central R.R.

Mich., Mt. Clemens—Dredging Machine—City Council plans to purchase. About $5,500.

Ill., Charleston—Natatorium—Swimming Club plans. W. I. Sidwell, interested.

Ill., Chicago—Bathing Beaches—City Special Parks Comn. plan $3,000,000 bond issue. A. Eugene Block, Chn. Com.

Ill., Chicago—Ice Skating Rink—Springer Wood Co making plans 1- and 2-story, 100x360-ft. About $200,000. C. Wood, Union Central Bldg., Cincinnati, Pres. S. H. Dunford, 10 South La Salle St., Arch.

Ill., East St. Louis—Market—Mississippi Valley Produce Growers Association plans. About $50,000.

Ill., Edwardsville—Creek Improvements—Madison County plans improving Cahokia Creek. About $65,000.

Ill., Valley—Retaining Wall—Wabash Railway Co. plans, Illinois River to prevent washing out tracks. About $200,00. A. O. Cunningham, Railway Exchange Bldg., St. Louis, Mo., Ch. Engr.

Iowa, Council Bluffs—Straightening River—County Superv. plans, Mosquito Creek, 7 mi.

Minn., Cambridge—Fire Station—City soon votes on $15,000 bonds for addition.

Minn., Highwood—(St. Paul post office)—Shelter House—Board Comrs., Ramsey County, receiving bids Sept. 5. G. J. Ries, Court House, St. Paul, County Audr.

Neb., Lincoln—Oil Storage Tank—City receiving bids Sept. 12. T. H. Berg, City Clk.

S. D., Redfield—Tunnel Work—State Bd. of Charities receiving bids Sept. 11 for foundation and tunnel work for building for Home for Feebleminded. W. H. King, Secy. State Bd. of Charities. C. H. Johnston, St. Paul, Minn., Arch.

Mont., Billings—Market Shed—Farmers Exchange Co. soon lets contract.

Mo., Macon—Park and Lake—City plans. G. B. Smiley, interested.

Mo., Moberly—Subway—Wabash Railway Co. plans, Rollins St. About $18,246. A. O. Cunningham St. Louis, Ch. Engr.

Mo., St. Louis—Ice Skating Rink—Winter Garden and Ice Co. making plans ice-skating rink, factory and warehouse. About $150,000. T. P. Barnett & Co., 705 Olive St., Arch. Noted Aug. 31.

Mo., St. Louis—Tunnel—Anheuser-Busch Brewing Association applied to Bd. Pub. Serv. for permission for tunnel under Broadway between Arsenal and Pestalozzi St.

Tex., Dallas—Elimination Grade Crossings—City plans, Maple and Lemmon Ave. and Cedar Springs Rd. H. Moseley, City Engr.

Tex., Dallas—Natatorium—G. S. Leachman plans, 1816 South Harwood St. About $25,000.

Tex., Dallas—Park—City made plans. About $250,000. Koch & Fowler, Arch. H. Moseley, City Engr. Noted Apr. 20.

Tex., Port Arthur—Fire Alarm System—State Attorney General's Dept. approved $34,000 bond issue.

Tex., Waxahachie—Levee—Ellis County soon lets contract levee on Trinity River in Levee Dist. No. 2. About $123,000, bonds sold. Noted Mar. 30.

Okla., Cushing—Pipe Line—Sinclair Oil Co., Tulsa, plans, from Cushing to Chicago, Ill.

Okla., Oklahoma—Flood Protection—G. V. McClure, City Engr., made plans for straightening channel North Canadian River from Oklahoma to Harrah, 170 mi. Noted Aug. 3.

Ariz., Jerome—Terminal—United Verde & Pacific Ry. plans switchback and moving terminal. About $100,000. T. C. Roberts, Jerome, Ch. Engr.

Wash., Spokane—Artificial Skating Rink—Spokane Arena Co. plans. About $100,000. W. H. Wraight, 824 Noroa St., interested.

Calif., Fresno—Natatorium—C. W. Stewart made plans, 125x150-ft., brick and cement. Glass & Butner, Arch.

Calif., San Rafael—Channel—City soon votes on $50,000 bonds for improving San Rafael channel.

B. C., Vancouver—Dock—Canadian Pacific Ry. making plans. About $1,000,000. J. G. Sullivan, Winnepeg, Man., Ch. Engr. Noted June 29.

Bids In and Contracts Awarded

Mass., Boston—(Brighton)—Cement—City received lowest bid for portland cement from P. J. O'Connell, 174 Freeport St. Dorchester.

Mass., Chicopee—Retaining Wall—Waterways and Pub. Lands Comn. let contract to D. F. CROWLEY, 658 Adams St., East Milton. Noted Aug. 24.

N. Y., New York—(Bronx)—Pier—City received bids Aug. 25 for repairing pier at foot of Fordham Ave., City Island, from A. M. Hazell, Inc., 90 West St., Manhattan, $7,836; Riverside Contracting Co., $8,822; Phoenix Construction Co., $8,972. Noted Aug. 24.

N. J., Princeton—Monument—Princeton Battle Monument Association let contract to MATTHEWS CONSTRUCTION CO., Princeton.

Penn., Erie—Drift Catcher—F. H. Diefendorf, Erie, $8,942, submitted lowest bid for series of 20 rein.-con. piers, connected by walkway at top, to form drift catcher across Valley of Mill Creek, Glenwood Park. T. Hanlon, City Clk. Noted Aug. 10.

Penn., Homestead — Retaining Wall — St. Michael's Cemetery let contract to MURRAY & KOSGROVE, Homestead.

Penn., Philadelphia—Comfort Station—J. Connor, Philadelphia, $6,300 submitted lowest bid, Cornelius Park. Noted June 15.

Penn., Pittsburgh—Underground Conduit Work—Central Dist. Telephone Co. let contract to FABER ENGINEERING AND CONSTRUCTION CO., Bessemer Bldg., Pittsburgh, $25,000.

Fla., Jacksonville—Fire Hose Houses—City let contract 15 fire hose houses to DUVAL PLANING MILL CO.

La., Melville—Levee—Red River, Atchafalaya and Bayou Bouef Levee Bd. let contract rebuilding Atkins Bayou Crevasse on Atchafalaya River to State Penitentiary Bd., convict labor. About $100,000.

La., New Orleans—(Official)—Harbor Improvements—Louisville Railway and Navigation Co. will improve St. Charles Parish Property on Mississippi River by company's forces. W. H. Coppage, Shreveport, Supt. Noted Aug. 17.

Miss., Clarksdale—Levee Work—Yazoo-Mississippi Levee Bd. let contract Sections 37 to 41 inclusive to CLARKE, CHESHIRE & CO., Natchez. Noted Mar. 16.

Ohio, Bergholz—Concrete Wall—County Comrs. received one bid from E. Steitz, Richmond. Address County Clk., Steubenville.

Ohio, Cincinnati—Bathhouse—David Gordon Building and Construction Co., 734 West 7th St., $26,881 submitted lowest bid, Freeman and Central Ave. F. S. Krug, City Engr.

Ohio, Cincinnati—(Official)—Comfort Station—City let contract, Spring Grove Ave. and Cosby St., let to M. PENKER & SONS, 123 Valencia Ave., $11,500. Noted Aug. 17.

Ohio, Cleveland—Swimming Pool—City let contract Garfield Park, to JAMES DUFF CONSTRUCTION CO., 603 Marshall Bldg., $7,027. Noted Aug. 10.

Ohio, Malta—Protection Crib—Morgan County let contract, Muskingum River, to DOVER & LANOR, McConnellsville. About $8,650.

Ohio, Sandusky—Retaining Wall—Contract retaining wall on north side of Perry Centennial Monument let to NICHOLAS FOX & SONS, Putin Bay.

Ind., Sullivan—Levee—County Comrs. let contract repairing Island Levee in Turman Township let to W. R. POLK, Oaktown. Noted May 25.

Mich., Detroit—Tunnels—Contract for tunnels at Sacred Heart of Mary Cemetery let to ROGOWSKI BROS. & WEDDA.

Mich., Mt. Clemens—Grandstand—Race Track Association let contract, 1-story, 30x130-ft., to J. L. PAGANETTI CO.

Ill., Mattoon—Retaining Wall—Illinois Central R.R. let contract to GOULD CONSTRUCTION CO., Davenport, Iowa, $12,000. A. S. Baldwin, Chicago, Ch. Engr.

Wis., Cudahy—Fire Engine House—City let contract to T. B. SIDERITS CO., 1574 2d St., Milwaukee.

Mo., Kansas City—Subway—Kansas City Terminal Co. let contract, Adams St., to D. MUNRO. Noted Nov. 25.

Mo., Providence—Levee—Fifth Dist. Levee Bd. let contract to DONOVAN & DALY.

Tex., Galveston—Riprap—Contract for 2,500 tons riprap for seawall let to S. FRINDNER, $3.50 per ton.

Wash., Everett—Dock—Council received lowest bid Aug. 10 for extending Norton St. by building 1,000-ft. dock from American Piledriving Co. fir piling, $11,485, cedar piling, $11,660. H. Mumm, Jr., City Engr.

Calif., Los Angeles—Sprinkling System—Bd. Harbor Comrs. received lowest bid for automatic sprinkler system in 6-story warehouse from Pacific Fire Extinguisher Co., R. W. Hellman Bldg., $14,000. Noted Jan. 6.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works," "Federal Government Work" and "Miscellaneous."

Mass., Boston—Office—C. H. Ditson, 178 Tremont St., making plans, 10-story, 50x103-ft. brick and stone. About $250,000.

Mass., Boston—Convent—St. Joseph's Church making plans, 3-story, 36x85-ft. C. R. Greco, 8 Beacon St., Arch.

Mass., Cambridge—Store and Office—Morey & Co. plans 5-story rein.-con.

Mass., Fitchburg—Hotel—H. T. Roody, 1 Main St., receiving bids Sept. 11, 4-story, 96x104-ft. G. N. Jacobs, 6 Beacon St., Boston, Arch.

Mass., Lawrence—Church—Lawrence Unitarian Society plans, Haverhill, Jackson and Summer St. Edwin J. Lewis, Jr., Boston, Arch.

Mass., Lowell—Lowell General Hospital plans 2-story, 40x180-ft. building on Varnum Ave. About $125,000.

Mass., Lowell—Theater, Store and Office—Plans being made, 2-story, 52x115-ft. L. N. Mayer, 162 Tremont St., Boston, interested. Funk & Wilcox, 120 Boylston St., Boston, Arch.

Mass., Springfield—New England Telephone and Telegraph Co., made plans for 3-story, 30x100-ft. building at Dwight and Worthington St. About $125,000.

Mass., Worcester—C. F. Stevens plans store and office building and service station at 670 Main St. About $150,000.

Mass., Worcester—Theater—S. Cohen, Fiskdale, plans, Millbury St. About $75,000.

Conn., Bridgeport—High School and Assembly Hall—Board Education making plans. About $110,000. L. Asheim, 211 State St., Arch.

Buildings (Continued)

Conn., Bridgeport—Bridgeport Christian Union making plans for 4-story, 87x100-ft. building. Briggs & Caldwell, Security Bldg., Arch.

Conn., Hamden—New Haven Orphan Asylum, Whitneyville, receives bids Sept. 15 for brick and stone building at Hamden.

Conn., Hartford—Armory—Colt Patent Fire Arms Manufacturing Co. plans, 4-story, 60x500-ft.

Conn., Hartford—Y. M. C. A. made plans for building. About $300,000. Noted Aug. 17.

Conn., Norwich—Sheltering Arms making plans for building. About $50,000. Kendall, Taylor & Co., 93 Federal St., Boston, Mass., Arch.

Conn., Westport—Grade School—City plans. About $40,000. P. N. Sunderland, Danbury, Arch.

N. Y., Hudson—Home—State Volunteer Firemen's Association plans. About $80,000. J. E. Powers, Ossining, Secy.

N. Y., Medina—School—Board Education making plans, 3-story, 46x98-ft. grade school and 3-story, 84x146-ft. high school. About $135,000. Pierce & Bickford, 118 Lake St., Elmira, Arch. Noted June 29.

N. Y., Morrisville—Laboratory and Class Rooms—State School of Agriculture making plans, 2-story. About $75,000. L. F. Pilcher, Capitol, Albany, Arch.

N. Y., New York—(Brooklyn)—Church—B. E. Muller, Arch., 477 5th Ave., Manhattan, making plans, 5th Ave. About $50,000.

N. Y., New York—(Manhattan)—C. B. J. Snyder, Supt. School Bldg., Park Ave. and 59th St., receiving bids Sept. 11 for building at Manhattan Trade School for Girls, Lexington Ave. and 22nd St.

N. Y., New York—(Manhattan) — New York University making plans for buildings. Day & Klauder, 925 Chestnut St., Philadelphia, Arch.

N. Y., Orchard Park—Club House—Park Club of Buffalo, 1401 Linwood Ave., plans. About $50,000. Colson & Hudson, 35 Dun Bldg., Buffalo, Arch.

N. Y., Scarsdale—Club House—Sunningdale County Club making plans, 2-story, About $50,000. R. D. Kohn, 56 West 45th St., New York, Arch.

N. J., Bayonne—Schools—Board Education receiving bids Sept. 21 for additions to high school and School No. 3. Noted Aug. 10.

N. J., Lyndhurst—School—Board Education receiving bids Sept. 5 for purchase of $75,000 bonds. H. Danton, Dist. Clk. Noted Aug. 24.

N. J., Newark—Store and Office—Bd. Trustees of Third Presbyterian Congregation making plans, 2-story brick and tile at 909 Broad St. About $75,000. Cady & Gregory, 40 West 32nd St., New York, Arch.

N. J., Newark—School—Com Bldg., Grounds and Supplies of Bd. Education making plans 16-room addition to South Tenth Street School. About $156,000.

N. J., Newark—School—Talmid Torah Association made plans 3-story, 42x94-ft. About $40,000. H. Rosensohn, 800 Broad St., Arch.

N. J., New Brunswick—Hospital—W. H. Boylan, 390 George St., making plans.

N. J., Newton—(Official)—High School—Board Education receiving bids Sept. 21. About $75,000. Rasmussen & Wayland, 1133 Broadway, New York, Arch. Noted July 6.

N. J., Paterson—School—City plans School No. 6, Broadway and Fair St. J. R. Wilson, Supt. of Schools.

N. J., Plainfield—City Hall—City receiving bids Sept. 5. J. J. Carroll, City Clk. Peck & Bottomley, 597 5th Ave., New York, Arch. Noted Jan. 13.

N. J., Trenton—Home—New Jersey Children's Home Society, Forst-Ritchey Bldg., plans, Brunswick Ave. About $50,000.

N. J., Wildwood—Church—G. I. Lovatt, Arch., 416 Walnut St., Philadelphia, making plans, 1-story, 60x145-ft.

Penn., Coraopolis — (Official) — High School—Board Education votes in November on bonds. C. E. Stone, Secy. Noted Aug. 17.

Penn., Elizabethtown—Masonic Home Com. of Grand Lodge of Pennsylvania making plans for 3 buildings. About $90,000. H. G. Louser, 725 Walnut St., Chn. Bldg. Com. Noted July 20.

Penn., Lost Creek—Church and Rectory—St. Mary Magdalen Congregation plans.

Penn., Philadelphia—Store and Office—Smith, Kilne & French Co. plans, 7-story, 5th Ave. and Arch St. W. C. Furber, 418 Walnut St., Arch.

Penn., Philadelphia — Hospital — Savery & Sheetz, Arch., making plans for Osteopathic Hospital, 19th and Spring St.

Penn., Philadelphia — Theater — Hoffman Co., Globe Theater Bldg., making plans, 19th and Market St. About $600 000.

Penn., Philadelphia—Bank and Office—Girard Life Insurance Co. making plans, 2-story, 24x100-ft. About $50,000. N. T. Folwell, Drexel Bldg., Pres Noted July 27.

Penn., Quakertown—Bank—Quakertown Trust Co. plans. W. C. Furber, Arch.

Del., Wilmington—Midvale Steel Co. plans addition.

Md., Baltimore—Hospital — Children's Hospital School, Green Spring Ave. and 41st St., making plans for additions. J. Posey, 925 Fidelity Bldg., Engr. Noted Aug. 31.

Md., Baltimore—Club House—Knights of Columbus plans, 2nd St. About $50,000.

Md., Cumberland—School—County Comrs. receiving bids Sept. 5 for purchase of $75,000 bonds. A. Ireland, Clk.

Md., Ocean City—Hotel—B. Frank Wagamon and associates plan. About $60,000.

Va., Norfolk—Auditorium—Council plans, about $250,000.

Va., Norfolk—Passenger Terminal—Atlantic Coast Line R.R. plans. J. E. Willoughby, Wilmington, N. C., Ch. Engr.

Va., Petersburg—Convention Hall and Armory—City Council plans.

Va., Portsmouth—High School—Board Education making plans, 3-story. About $100,000. C. M. Robinson, Times-Dispatch Bldg., Richmond, Arch.

Va., Richmond—Bank—Federal Reserve Bank plans, 9th and Franklin St.

N. C., Lenoir—Dormitory—Davenport College plans. About $50,000.

Ga., Atlanta—Randolph Bros., 60 Peachtree St., plan building, Broad and Peachtree St. About $50,000.

Ga., Emory—Emory University plans out-patient building, about $50,000.

Ga., Griffin—High School—City votes Sept 19 on $65,000 bonds.

Ga., Oxford—Emory University plans building to be known as J. J. Gray Clinic. About $50,000. Address Bd. of Trustees.

Ala., Montgomeery—City Hall—City soon votes on $300,000 bonds. W. T. Robertson, Mayor. S. E. Washburn, City Engr. Noted Aug. 17.

Ala., Tuscaloosa—University of Alabama plans building. About $50,000.

Miss., Laurel—Laurel Lodge, Knights of Pythias, plans building on Central Ave.

La., New Orleans—Lodge—Odd Fellow making plans, 5-story.

La., New Orleans—Office—F. S. Shields, Secy. Sewage and Water Bd., receiving bids Oct. 17. Toledano, Morgan & Bernard, Perrin Bldg., Arch.

La., Shreveport—Office—Plans being prepared, 16-story. E. A. Frost, Shreveport, interested.

Tenn., Memphis—Church—Court Ave. Presbyterian Congregation retained John Gaisford and S. J. Weigel to make plans. About $65,000.

Tenn., Morristown—City making plans for 70x120-ft. building. Address City Clk., Morristown.

Tenn., Nashville—School—Bd. Education will rebuild Warner School. About $100,000. Ames & Norton, Arch.

Ky., Berea—Dormitory—Berea College making plans, 3-story. Garber & Woodward, 2803 Union Central Bldg., Cincinnati, Arch. Noted June 15.

Ohio, Akron—Hotel—Snider Building Co. granted permit, 7-story, Broadway and East Market St. About $80,000.

Ohio, Akron — Terminal Station — Northern Ohio Traction and Light Co. made plans, 4-story. About $125,000.

Ohio, Cincinnati—Fenwick Club for Catholic Young Men and Boy's Home making plans for 6-story brick and terra cotta building. About $200,000. Theis & Theis, Dayton, Arch.

Ohio, Columbus—Exposition Hall—Columbus Exposition Building Co. plans. About $300,000. L. F. Kiesewetter, Treas.

Ohio, Dayton—Bank Store and Office—Mutual Home and Savings Association receiving bids Sept. 11, 10-story, 83x100-ft. About $200,000. Schenck & Williams, Arcade Bldg., Arch. Noted July 13.

Ohio, Hilliards—Grade and High School—Norwich Township receiving bids Sept. 12, 2-story. About $40,000. F. L. Packard, 1212 Hayden Bldg., Columbus, Arch. Noted Aug. 10.

Ohio, Ironton—Hotel and Auditorium—Ironton Hotel Co. making plans, 3-story, 132x132-ft. About $125,000. Covel Construction Co., Iona, Mich., Arch.

Ohio, Lima—High School—City voted $650,000 bonds. Address Bd. Education.

Ohio, Old Fort—(Official)—School—Board Edusation receiving bids Sept. 15. About $60,000. H. C. Millott, Bliss Bldg., Sandusky, Arch. Noted Aug. 17.

Ohio, Portsmouth — School — Bd. Education making plans. Ritter & Bates, Arch.

Ohio, Toledo—Store—La Salle & Coke Co. plans. About $1,000,000. A. Coke, Gen. Mgr.

Ohio, Urbana—Temple—Springfield Masonic Temple Co. plans. About $250,000.

Ohio, Warrensville—School—Beehive School Dist. voted $50 000 bonds. Noted Aug. 17.

Ohio, Wilberforce—Gymnasium—Board Trustees of Combined Normal and Industrial Dept. Wilberforce University receiving bids Sept. 21. J. A. Joiner, Supt. F. L. Packard, Columbus, Arch.

Ind., Bedford—Bd. Comrs. Lawrence County receiving bids Sept. 11 for infirmary building. E. W. Edwards Bedford, County Audr.

Ind., Boonville—High School—Board Education receiving bids Sept. 16, about $48,000. C. Shopbell & Co., 707 Furniture Exchange Bldg., Evansville, Arch. Noted Aug. 24.

Mich., Ann Arbor—T. M. Iden, Michigan University, making plans for 2-story, 50x90-ft. building. About $45 000. L. Schmidt, 126 North Market St., Wichita, Kan., Arch.

Mich., Detroit—School—Bd Education receiving bids Sept. 12, Cicotte, McGraw, Pittsburg and Gilbert Ave. C. A. Gadd, Secy. Bd. Malcombson & Higginbotham, 404 Moffat Bldg., Arch.

Mich., Detroit—A. Krolik & Co. making plans for 12-story rein.-con. building on Jefferson Ave A. Kahn, Arch.

Mich., Flint—Office Building—Buick Motor Co. plans, about $250,000. W. P. Chrysler, Gen. Mgr.

Mich., Grand Rapids—Grade School—Board Education receiving bids about Sept. 15. About $65,000. H. H. Turner, 254 North Division St., Arch.

Mich., Grand Rapids—Terminal Station—Michigan Railway Co. plans, 7-story. H. D. Sanderson, Jackson, Ch. Engr.

Mich., Highland Park—School—Bd. Education receiving bids Sept. 21, Joslyn Ave. W. D. Hutterfield, 1113 David Whitney Bldg., Detroit, Arch. Noted Aug. 24.

Mich., Jackson—Temple—Jackson Labor Temple Association plans, 4-story, 66x112-ft. About $70,000. C. R. Thorne, Pres.

Mich., Pontiac—High School—City voted $150,000 bonds for enlarging high school and Central and Wilson Schools. Noted July 27.

Ill., Chicago—(Official)—Hotel—P. Gerhardt, Arch., 65 West Randolph St., receiving bids about Sept. 20, 10-story, 90x160-ft. About $460,000. Noted Aug. 17.

Ill., Chicago—Dir. Bd. of Trade making plans 21-story building on La Salle St. About $3,500,000. Holabird & Roche, 104 South Michigan Ave., Arch.

Ill., Chicago—Hotel—Eitel Bros., 173 West Randolph St., plans, 10-story.

Ill., Chicago—D. F. Crilly made plans for building on South Michigan Ave. About $50,000.

Ill., Chicago—Office—G. F. Lovdall, 953 Belmont Ave., made plans for 8-story, 50x175-ft., Chicabo Ave. and North State St. About $130,000.

Ill., Chicago—Theater—S. Katz of Amalgamated Theater Corporation, and B. and A. J. Balaban of General Feature Film Co., plan, 2-story, 3527-41 West 12th St., about $275,000.

Ill., Chicago—Hotel—C. T. Lundstrom, 133 West Washington St., made plans, 3-story, 50x137-ft. About $65,000. R. C. Harris 79 West Monroe St., Arch.

Ill., De Kalb—Hospital—City plans. About $60,000. Address City Clk., De Kalb.

Ill., East St. Louis—Freight Depot and Office Building—Illinois Central Ry. plans, $100,000. A. S. Baldwin, 135 East 11th St., Chicago, Ch. Engr.

Ill., Granville—High Schhool—Hopkins Township making plans, 3-story, 80x100-ft. About $50,000. E. A. Payne, Carthage, Arch. Noted Aug. 17.

Ill., Joliet—Hospital—Silver Cross Hospital plans addition. About $70,000.

Ill., Springfield—Church—Frank Merrithew interested in Lincoln Memorial Church. About $60,000.

Wis., Appleton—Freight Depot—Chicago & Northwestern Ry. plans, about $50 000. W. H. Finley, 226 West Jackson Blvd., Ch. Engr.

Wis., Milwaukee — Milwaukee County receiving bids Sept. 14 for purchase of $380,000 bonds for house of correction.

Wis., Oshkosh—School—Oshkosh Normal School approved plans. Van Ryn & DeGellke, Milwaukee, Arch.

Iowa, Ames—State Bd. Education authorized 3 buildings at Iowa State College. About $125,000.

Iowa, Des Moines—School—Independent School Dist. receiving bids Sept. 19 for Stowe School. A. L. Clinide, Secy., Smith & Keffer, Arch.

Iowa, Dubuque—Hospital—City plans tuberculosis Hospital. About $75,000.

Iowa, Jefferson—School—Board Education receiving bids Sept. 25. M. G. McDuffie, Pres.

Iowa, Jesup—High and Grade School—Jesup Consolidated School Dist. receiving bids Sept. 12. R. L. Bordner, Secy. H. E. Netcott, Independence, Arch. Noted Aug. 17.

Iowa, Muscatine—High School—School Bd. rejected bids. Plans to be revised and new bids received. Eckland, Fugard & Knapp, Chicago, Ill., Arch. Noted Aug. 31.

Buildings (Continued)

Iowa, Sergeant Bluff—School—Board Education made plans. About $70,000. H. M. Michaelson, Secy. Bd. Noted Aug. 3.

Iowa, Shenandoah—Hospital—H. and C. Hand making plans 2-story, rein.-con. W. S. Ferguson, 1900 Euclid Bldg., Cleveland, Arch.

Minn., Anoka—Hospital—State Bd. Control receiving bids Oct. 1, 3-story, 55x96-ft. C. H. Johnston, 715 Capital Bank Bldg., St. Paul, Arch.

Minn., Clear Lake—Grade School—Board Education, Dist. No. 1 plans, 2-story. About $50,000. B. C. Buckley, 252 Plymouth Bldg., Minneapolis, Arch.

Minn., Minneapolis—Church—Church of Incarnation plans, about $100,000. E. L. Masqueray, Arch.

Minn., Minneapolis—Church—First Methodist Episcopal Church plans, about $150,000. S. M. Dick, 2215 Bryant Ave., S., Pastor.

Minn., Owatonna—City election Sept. 18 to vote on $150,000 school bonds.

Minn., St. Paul—Office Building—Friedman Bros. plan, Shelby and Snelling Ave., about $50,000.

Minn., St. Paul—Club House and Store—St. Paul Athletic Club receiving bids Sept. 15 12-story, 100x150-ft. About $650,000. A. M. Stem, 601 Endicott Bldg., Arch. Noted Aug. 10.

Minn., St. Paul—Church—St. Lukes Congregation making plans, about $100,000. E. L. Masqueray, Arch.

Minn., Virginia—City Hall—City plans. About $100,000. A. E. Bickford, Clk.

Minn., Wabasha—High School—Board Education receiving bids Sept. 8. J. W. Murdock, Clk. Bd. Chandler & Park, Racine, Wis., Arch.

Kan., Kansas City—Court House—Wyandotte County votes Nov. 7 on $400,000 bonds. F. M. Holcomb, County Clk.

Kan., Marion—School—City soon votes on $50,000 bonds. T. W. Williamson & Co., Topeka, Arch.

Kan., Wichita—Jail—County voted $100,000 bonds. H. M. Barrett, County Clk.

Neb., Hastings—Schools—City plans to spend about $175,000. A. Everhart, Supt. Bd. Education.

Neb., Lincoln—School—Board Education plans. About $175,000.

Neb., Norfolk—Temple—Masonic Temple Co. receiving bids Sept. 25, 3-story, 44x102-ft. H. S. Thorpe, Secy. J. E. Stitt, Norfolk, Arch.

Neb., Omaha—H. A. Wolf making plans for 10-story building at 16th and Harney St. About $700,000. J. McDonald, Omaha National Bank Bldg., Arch.

Neb., Omaha—Jail—City soon votes on $150,000 bonds.

S. D., Redfield—School—State receiving bids Sept. 11 for 3-story school for feeble minded. About $150,000. C. H. Johnson, 715 Central Bank Bldg., St. Paul, Arch.

Mont., Deer Lodge — High School — Powell County soon votes on $60,000 bonds.

Mo., Milan—High School—City plans.

Ark., Jonesboro—School—School Bd. receiving bids Sept. 15. A. E. Lockhart, Secy. R. H. Hunt, 225 James Bldg., Chattanooga, Tenn., Arch. Noted Aug. 31.

Ark., Rogers—Hotel—W. Bartlett and associates plan. About $100,000

Ark., Texarkana—Hotel—Frost interests made plans. About $300,000. Address E. W. Frost, State Bank Bldg.

Tex., Beaumont—School—City making plans. About $300,000. Sanquinet & Staats, Ft. Worth, Arch. Noted Aug. 10.

Tex., Dallas—Office—Missouri, Kansas & Texas Ry. plans, 6-story. About $150,000. L. T. Sonnbiadh, Ch. Engr., Dallas, Tex.

Tex., Denison — School — School Board made plans. About $50,000. C. H. Page & Bros. Austin, Arch. Noted Aug. 10.

Tex., Dallas—Bank—Dallas Trust and Savings Bank making plans, 3-story. About $100 000.

Tex., Houston—(Official)—G. H. Herman Estate made plans, 6-story, 95x100-ft , terra cotta and stone. About $65,000. F. S. Glover & Son, Binz Bldg., Houston, Arch.

Tex., Paris—School—City sold $100,000 bonds for improvements.

Tex., Paris—Passenger Station—Texas & Midland R.R. plans. About $50,000. L. W. Wells, Terrell, Ch. Engr.

Tex., Port Arthur—Library—Plans made for Gates Memorial Library, about $100,000.

Tex., Sherman—High School—School Bd. making plans. About $80,000. C. H. Page & Bros., Austin, Arch. Noted Aug. 10.

Tex., Taylor—Hotel—Howard Blank and T. W. Marse interested. About $75,000.

Tex., Waco—Sanitarium—Central Texas Baptist Sanitarium making plans. About $50,000. Noted Nov. 18.

Tex., Waxahachie—High School—City votes Oct. 10 on $75,000 bonds. Noted May 4.

Colo., Denver—Station—Union Station Co. plans rebuilding east and west wings. About $600,000.

Colo., Larkspur—Home—American Federation of Human Rights plans.

Idaho, Idaho Falls—Schools—School Bd. soon lets contracts for 4 schools. About $100,000.

Idaho, Moscow—Hotel—Soda Springs Hotel and Sanitarium Co. plans. About $100,000.

Ariz., Jerome—Hospital—United Verde Copper Co. making plans. About $80,000. R. D. Kelly, Los Angeles, Calif., Arch.

Ore., Astoria—School—City making plans, 2-story, brick and concrete. About $80,000. Whitehouse & Fouilhoux, Wilcox Bldg., Portland, Arch.

Calif., Bakersfield—Department Store—Hochheimer & Co., 1924 Chester St., plans, 4-story rein.-con. at 19th and Chester St. About $150,000.

Calif., Fresno—School—City making plans, 2-story, brick and concrete. About $55,000. Coates & Traver, Rowell Bldg., Arch.

Calif., Fresno—Cathedral—Scottish Rite Masons plan, Van Ness Blvd. and Olive Ave. About $100,000.

Calif., Hollister—Department Store—Grangers Union making plans, 2-story, rein.-con. About $45,000. W. Binder, Rea Bldg., San Jose, Arch.

Calif., Long Beach—Church—First Christian Church plans. About $75,000.

Calif., Los Angeles—Stability Building Co. plans 9-story theater, store, studio and loft building at 3rd St. and Broadway. About $600,000.

Calif., Los Angeles—Hospital—Pacific Hospital Association, 1329 South Grand Ave. plans. About $1,000,000.

Calif., Los Angeles—Hospital—J. Schulz Engr., 359 Court House, making plans for additions to County Hospital. About $250,000.

Calif., Oakland—Office—Pacific Gas and Electric Co. plans, 16th and Clay St. About $200,000. J. A. Britton, San Francisco, First Vice-Pres. and Gen. Mgr.

Calif., Piedmont—(Oakland post office)—Church—Interdenominational Church making plans 2-story. About $40,000. A. Farr, Foxcroft Bldg., S. F., Arch.

Calif., Sacramento—Auditorium—Comrs. Pub. Wks. making plans.

Calif., San Francisco—Hospital—St. Josephs Hospital plans, 5-story, rein.-con. About $150,000. L. J .Devlin, Pacific Bldg., Arch.

Calif., San Francisco—School—City making plans, 1-story. About $45,000. A. G. Scholz, Phelan Bldg , Arch.

Calif., San Jose—Gymnasium—William Binder, Rea Bldg., making plans for addition. About $54,000.

Calif., San Mateo—School—City soon votes on $40,000 bonds, 1- and 2-story, rein.-con. W. H. Toejke, 46 Kearney St., Arch.

Calif., Santa Barbara—Library—Plans made for Carnegie library at Anacapa and Anapamu St. About $50,000. F. W. Wilson, Santa Barbara, Arch.

Calif., Visalia—Hospital—Tulare County plans. Address County Clk., Visalia.

N. B., St. John—School—F. Neil Brodie, Arch., 42 Princess St., making plans, brick and steel. About $75 000.

Que., Montreal—Club House—Automobile Club of Canada making preliminary plans. About $1,000,000.

Que., Montreal—Theater—North End Amusement Co. plans, St. Denis St. About $125,000. A. Letang, Mgr.

Que., Sherbrooke—School—Congregation Notre Dame, Grove St., making plans. About $150,000. J. W. Gregoire, 191a Wellington St., Arch.

Ont., Toronto—Theater—J. W. Grey, Confederation Life Bldg., making plans, rein.-con. About $150,000.

Ont., London—Hotel—London & Port Stanley Railway Bd, making plans. About $50,000. Watt & Blackwell, Bank of Toronto Bldg., London, Arch.

B. C., Vancouver—Office—Canadian Northern Railway Co. soon lets contract, 2-story, 50x800-ft., iron and steel. A. F. Stewart, Toronto, Ont., Ch. Engr.

Bids In and Contracts Awarded

Maine, Skowhegan — Reformatory — State let contract superstructure to WILBUR & SON, Bangor. Noted Aug. 10.

N. Y., Dunkirk—Church—Methodist Episcopal Congregation, East 6th and Washington St., let contract to JOHN SARDESON, Fredonia. About $40,000.

N. Y., New York—(Manhattan)—Bank—Brown Bros. & Co. let contract, 5-story, to MARC EIDLITZ & SON, 30 East 42nd St. About $150,000.

N. Y., New York—(Richmond)—School—Church of Sacred Heart let contract, 2-story, 124x125-ft., at West New Brighton, to JOHN MILNE CO., Staten Island. About $100,000. Noted Apr. 13.

N. Y., Schenectady—Store—Carl Co. let contract, 2-story, to BROWN & LOWE CO., 111 Foster Ave. About $100,000.

N. Y., Troy—Y. M. C. A. let contract 5-story building to R. H. HOWES CONSTRUCTION CO., 105 West 40th St., New York. About $150,000. Noted July 20.

N. Y., Utica—Gymnasium and Lodge — Utica Council, Knights of Columbus No. 189, let contract to T. BYRNES, 1579 Elm St. About $60,000.

N. J., Atlantic—School—Bd. Education let contract to WILBERT S. BEAUMONT, St. Girard Blk., Philadelphia.

N. J., Jersey City—School—Bd. Education let contract Washington St. to W. H. & F. W. CRANE. About $143,000.

N. J., Morristown—Church—Church of Redeemer let contract to STURGIS BROS., Morristown. About $90,000.

N. J., West Orange—School—Bd. Education let contract, 2-story brick, at Eagle Rock Ave. and Valley Way, to J. B. EVERETT & SON, INC., East Orange. About $50,000. Noted June 1.

Penn., Philadelphia—Bank and Office—Franklin Trust Co. let contract to NICKSON DUGGAN CONSTRUCTION CO., 1001 Bailey Bldg. About $300,000. Noted July 27.

Penn., Ridley Park—High School—Board Education let contract to WILLISLUDWICK CO., $62,990. Noted Aug. 10.

W. Va., Madison—Court House—Boone County let contract, 3-story, 70x140-ft., to MONOTTI & BENNETT, Danville. About $77,758.

W. Va., West Liberty—Dormitory—State Bd. Control let contract, West Liberty State Normal School, to BLUESTONE CONSTRUCTION CO., Bluefield.

Ga., Atlanta—Store and Loft—Massell Realty Co., 305 Healey Bldg., will build, 5-story, by day labor. About $60,000. Noted Aug. 17.

Ga., Macon—School—Contract Ballard School let to J. H. B. WILDER CO., $40,000.

Ga., Savannah—Auditorium—City let contract to WISE GRANITE CONSTRUCTION CO., Richmond, Va., $112,000. Noted Aug. 3.

Tenn., Chattanooga—High School—City Comn. let contract to PARK-GRIMES CO., about $63,111.

Ohio, Circleville—High and Grade School—Bd. Education let contract to A. F. FRY, Piqua, $102,619. Noted Aug. 10.

Ohio, Columbus—E. S. Davis let contract building to LINKENHEIL PLANING MILL CO.

Ohio, Marion — Church — Emanuel Lutherian Church let contract to J. BALDAUE, Marion. About $50,000.

Ohio, Struthers—(Official)—City let contract building to HOPKINS BROS., Youngstown. Noted Aug. 10.

Ind., Fountain—School — City let contract to AINSWORTH CONSTRUCTION CO., about $48,000.

Mich., Detroit—Theater and Office—Northwestern Detroit Amusement Co. let contract 2-story, East Grand Blvd., to FRANK HARRINGTON CO. About $60,000.

Mich., Detroit—Hotel—Norton Hotel, Griswold and Jefferson St., let contract to F. H. GODDARD CO., Detroit.

Mich., Lake Linden—High School—Bd. Education let contract to BAILEY & MARCH, Minneapolis. About $160,000. Noted Aug. 10.

Mich., Mancelona—Carnegie Library—Contract let to G. LATHER, Traverse City.

Mich., Sturgis—(Official)—High School—Board Education let contract to BEAUMONT & WILLIAMSON, 25 North Dearborn St., Chicago, $96,462. Noted Aug. 17.

Ill., Chicago—Hotel—Robert Goldstein and H. Friedman, 4616 Clarendon Ave., let contract, 6-story, 50x124-ft. addition, to H. SCHRIK, 3700 West Chicago Ave. About $250,000.

Ill., Golconda—Grade and High School—Board Education let contract, 2-story, 92x108-ft., to J. COLE, Paducah, Ky. About $40,000.

Ill., Streator—School—Bd. Education let contract Sherman School to D. C. DEWAR, Streator, $57,140. Noted Aug. 31.

Wis., Superior—High School—Board Education let contract, 2-story, 100x120-ft., to SHURICK JOHNSON CO. About $60,000. Noted Aug. 10.

Iowa, Cedar Falls—School—City let contract to G. L. SMITH, Waterloo. About $40,000. Noted Aug. 10.

Iowa, Sioux City—Church — First Congregational Church received lowest bid from Andrew Ostling, 810 5th St., $89,950. Noted July 13.

Iowa, Waterloo—Terminal Station—Waterloo, Cedar Falls & Northern Ry. let contract, 4th and Mulberry St., to H. A. MAINE CO. About $75,000.

Minn., Minneapolis—School—Contract, rebuilding Franklin School, let to CARLSTED BROS., 300 20th Ave., N., $77,136.

Minn., Minneapolis—Hotel—Russell Hotel let contract, 5-story 30x50-ft. addition, to F. G. McMILLAN, 2 Southeast 5th St. About $40,000.

Kan., Winfield—Bank and Office—State Bank of Winfield let contract to DIETER & WENZELL CONSTRUCTION CO., Wichita, $46,000.

Neb., David City—High School—Board Education let contract to H. OHLSEN & SON, $62,385. Noted June 22.

Neb., Kearney—Gymnasium—State let contract, 3-story, 63x130-ft., to W. KNUTZEN, 19 West 24th St. About $55,000.

Neb., Tekamah—Court House—County Board Superv. let contract to S. P. GOULD & SON, Omaha. About $75 000.

Buildings (Continued)

Mo. St. Louis—Bank and Office—James Investment Co. let contract, 12-story, to JOHN HILL CONSTRUCTION CO., 915 Olive St. About $1,000,000.

Tex., Dallas—Hotel—Dallas Hotel Co. let contract to GILSONITE CONSTRUCTION CO., St. Louis, $750,000.

Tex., El Paso—Momsen, Dunnegan & Ryan let contract 1-story rein.-con. building at Overland and Campbell St. to J. E. MORGAN. About $50,000.

Tex., Orange—High School—School Bd. let contract, 3-story, 120x158-ft. concrete, to W. P. BERRY & CO., Lufkin. About $100,000. Noted Mar. 2.

Okla., Dewey—High School—Bd. Education let contract 2-story, 77x90-ft. addition to A. L. McGREGOR, Bartlesville. About $40,000. Noted June 15.

Idaho, Idaho Falls—School—City rejected bids received Aug. 21. About $85,000. C. M. Scott, Pres. Bd. Education.

Ore., Portland—A. Huth, Tacoma, Wash., soon lets contract for 5-story brick and tile building on Broadway. About $150,000. J. F. Bennes, Chamber of Commerce Bldg., Arch.

Ore., Portland—School—Contract, 1st unit Benson Polytechnic School, 20th and East Gilsan St., let to FRIEBERG & McLENNON CO., Portland, $170,325. Noted Feb. 24.

Calif., Tracey—High School—Bd. Education let contract to JAMES FURLONG, San Francisco, $52,000.

Calif., Visalia—Schools—Bd. School Trus. lets contract about Sept. 15 for 2 rein.-con. schools. About $85,000. Swartz & Swartz, Rowell Bldg., Fresno, Arch.

Calif., Wasco—High School—City let contract to WARD & GOODWIN, 110 Jessie St., San Francisco, $44,000.

Calif., Woodland—Courthouse—Bd. Supvrs. Yolo County, let contract to R. S. TROST, 26th and Howard St., San Francisco. About $196,521. Noted Aug. 3.

Ont., Galt—School—School Board let contract, brick and stone to P. H. SECORD & SON, 132 Nelson St., Brantford. About $50,000. Noted May 25.

Ont., Pembroke—School—Contract, tile, rein.-con. and limestone, let to H. P. BECK, 18 Woodlawn Ave., Ottawa. About $55,000. Noted June 29.

Man., Winnipeg—J. McDiarmid Co. Ltd., $3,128,000 submitted only bid for Parliament buildings. T. H. Johnson, Minister Pub. Wks. Noted Apr. 6.

B. C., Vancouver—Theater—Contract Pantages Theater let to SKENE & CHRISTIE, Vancouver, $95,980. Noted Mar. 2.

SEWAGE PLANT, LEXINGTON, KY.

Bids received by city Aug. 8 for sewage plant from (A) SULLIVAN CONSTRUCTION CO., Lexington, $207,184, (awarded contract); (B) Sullivan, Long & Hegarty and Case & Cothran, Atlanta, Ga., $213,682; (C) T. S. Moudy & Co., Chattanooga, Tenn. $216,918; L. Eid Concrete Steel Co., Cincinnati, Ohio, $267,202; Suburban Engineering Co., New York, N. Y., $218,806; Mason & Hanger Co., Lexington, $243,467; J. Duff Construction Co., Cleveland, Ohio, $296,196; B. Thompson, Tampa, Fla., $299,860; Whiting-Turner Construction Co., Baltimore, Md., $231,829. The item bids of the three lowest bidders were as follows:

	A	B	C
10,000 cu.yd. earth excavation	$0.42	$0.42	$0.40
12,000 cu.yd. rock excavation	2.00	1.62	1.40
2,000 cu.yd. rolled embankment	.20	.36	2.00
2,150 cu.yd. plain concrete	7.25	6.75	6.60
3,250 cu.yd. reinforced concrete, Class A	8.50	10.00	10.00
175 cu.yd. reinforced concrete, Class B	11.70	15.00	18.00
75 tons steel reinforcement	.0435	.054	85.00
24-in. siphons and air locks (lump sum)	8,400.00	8,000.00	9,350.00
18-inch siphons	750.00	840.00	862.00
310 tons c.-i. B&S Pipe	41.00	48.00	50.00
50 tons c.-i. B&S special castings	82.50	90.00	80.00
5 tons c-i. flanged pipe	59.00	84.00	100.00
4 tons c.-i. flanged special castings	120.00	120.00	150.00
101,000 lin.ft. 6½-in. tile vitrified underdrains	.08	.084	.065
1,000 lin.ft. 8-in. vitrified tile pipe	.20	.18	.22
100 lin.ft. 6-inch vitrified tile pipe	.18	.12	.20
Filter laterals and fittings (lump sum)	5,713.00	5,328.00	4,470.00
Sprinkler nozzles (lump sum)	662.50	755.00	717.00
20,000 cu.yd. broken stone in filter	3.076	3.00	3.41
700 cu.yd. sand and gravel	1.98	2.70	3.55
8 rect. sluice gates and H. wheels 2x3 ft	258.75	282.00	211.50
11 rect. sluice gates and H. wheels 3x3 ft	304.75	330.00	217.00
4 30-in. sluice gates	155.25	174.00	202.50
3 24-in. sluice gates	118.45	144.00	127.50
4 12x12-in. rectangular sluice gates	44.85	54.00	67.80
4 20-in. I.B. gate valves	120.75	150.00	141.70
1 18-in. I.B. gate valves	130.50	144.00	131.60
4 12-in. I.B. gate valves	39.10	48.00	57.70
8 8-in. I.B. gate valves	29.90	36.00	26.40
4 6-in. I.B. gate valves	13.25	15.00	18.12
39 4-in. I.B. gate valves	11.50	13.20	12.16
10 2½-in. valves and hose connections	10.65	12.00	14.70
4 4-in. lift valves	15.25	18.00	23.30
2 6-in. I.B. check valves	16.40	18.00	27.65
2 4-in. I.B. check valves	10.35	12.00	18.55
16 8-in. shear gates and handles	14.15	18.00	16.00
8 2-inch brass gate valves	5.70	6.00	8.00
43 operating stands	10.80	18.00	10.00
Ball bearing operating stand (lump sum)	54.00	60.00	84.00
1,400 lin.ft. 2-in. galvanized w.-i. pipe and fittings	.31	.30	.20
25 M ft. b.m. weirs, scum boards and stop planks	150.00	120.00	150.00
5 M ft. b.m. miscellaneous timber	40.00	54.00	80.00
10,000 lb. miscellaneous castings	.06	.048	.10
1,000 lb. miscellaneous steel and w.i.	.06	.072	.15
4 hydrants	30.00	36.00	32.60
Sludge removal ry. and appurtenances (lump sum)	......	1,500.00	1,265.00
2 6-in. pump and motor	773.00	2,040.00	641.00
1 4-in. pump and motor	488.00	840.00	443.00
Pump houses (lump sum)	950.00	840.00	2,187.00
Laboratory building (lump sum)	4,224.00	4,000.00	3,022.00
1 catch basin	35.00	24.00	60.00
4,000 sq.yd. sodding	.20	.12	.25
4 acres sowing grass seed	25.00	30.00	50.00
1,500 sq.yd. macadam roads	1.00	.90	1.25
6 valve boxes	3.50	4.20	10.00
Extended totals	$207,184	$213,682	$216,918

The Chattanooga Engineering Co. has filed an application for a charter. The incorporators are M. Hedges, F. C. Stimmel, W. S. Gfroerer, R. R. Rabe and J. A. Chambliss. The company will engage in the erection of white way plants, power plant installation and other engineering work.

The Roberts & Schaefer Co., Chicago, Ill., advises us it has a $22,000 contract from the Atchison, Topeka & Santa Fe Ry. for a 400-ton, four-track, automatic-electric coaling plant, using the Duplex shallow pit loader, for installation at the new terminal at Las Vegas, N. M. The company has also a $19,000 contract from the Pere Marquette R.R. for a large three-track reinforced-concrete automatic electric coaling plant with counter-balanced bucket at Flint, Mich. This station will have three power-operated "Rands" coal-loaders for measuring and recording all coal delivered to locomotives.

The Management of the Hanyueh Branch of the Canton-Hankow Ry., Peking, China, of which Jeme Tien-yu is the managing director, has awarded the contract for 150 freight cars to the Robert Dollar Co., 160 California St., San Francisco, Calif.

The price for these cars is in the neighborhood of $460,000 delivered at Hankow, and the time of the delivery has been set for some time during the first half of next year. They include 75 of the high-sided and 75 of the low-sided type, and are to be constructed to conform to specifications furnished by the railway company. According to preliminary arrangements effected by the company it is probable they will be built on the Pacific Coast.

PAVING, BOSTON, MASS.

Group 1

Bids received by Public Works Dept. Aug. 14 for paving various streets from (A) B. E. Grant, 99 West Cedar St., Boston $177,196; (B) Coleman Bros., Pearl St., Chelsea, $195,337; (C) Central Construction Co., 228 Southampton St., Roxbury. The item bids were as follows:

	A	B	C
15 cu.yd. excavation and setting water boxes	$1.00	$2.00	$2.00
15 cu.yd. rock excavation	1.00	3.00	7.00
900 lin.ft. straight E. stone hauled and laid	.20	.25	.20
370 lin.ft. circular E. stone hauled and laid	.16	.25	.15
12,120 lin.ft. resetting E. stone	.12	.20	.16
6,230 cu.yd. concrete base	5.25	5.00	6.39
340 sq.yd. gravel joint (granite block paving) relaid	.53	.90	.90
4,500 sq.yd. asphalt joint (granite block paving) furnished and laid	.45	3.60	3.87
400 sq.yd. asphalt joint (granite block paving) relaid	1.00	1.25	2.00
31,530 sq.yd. grout joint (granite block paving) furnished and laid	3.85	3.75	3.87
7,620 sq.yd. grout joint (granite block paving) relaid	.80	1.15	1.20
160 sq.yd. flagging asphalt joint relaid	1.00	1.25	1.40
40 sq.yd. flagging grout joint relaid	.80	1.10	1.20
2,430 sq.yd. flagging asphalt joint hauled and laid	.85	1.25	1.40
465 sq.yd. flagging grout joint hauled and laid	.80	1.00	1.30
Wood blocks	....	....	....
3,170 sq.yd. brick side walks relaid	.20	.40	.35
65,000 sq.ft. artificial stone walks	.17	.19	.20
Extended totals	$177,196	$195,338	$210,194

PAVING, BOSTON, MASS.

Group 2

Bids received by Public Works Dept. Aug. 14 for paving various streets from (A) B. E. Grant, 99 West Cedar St., Boston, $186,375; (B) J. Doherty, 133 Calumet St., Roxbury $189,575; (C) M. De Matteo, 146 Dudley Ave., Roslindale, $198,979; Coleman Bros., Pearl St., Chelsea, $206,241; D. M. Biggs & Co., 60 Marsh St., Dorchester, $247,676; Central Construction Co., 228 Southampton St., Roxbury, $292,319. The item bids of the three lowest bidders were as follows:

	A	B	C
5 cu.yd. setting and resetting water boxes	$1.00	$1.00	$5.00
5 cu.yd. rock excavation	1.00	1.00	5.00
500 cu.yd. gravel fill	.05	.75	1.10
420 lin.ft. straight E. stone, hauled and laid	.20	.20	.17
320 lin.ft. circular E. stone laid	.16	.16	.13
12,710 lin.ft. resetting E. stone	.12	.15	.15
6,680 cu.yd. concrete base	5.00	5.25	7.00
470 sq.yd. granite block, relaid, gravel joint	.15	.43	.50
520 sq.yd. granite block furnished and laid, asphalt joint	3.60	3.25	3.00
100 sq.yd. granite block, relaid, asphalt joint	1.00	.98	1.00
28,540 sq.yd. granite block, furnished and laid, grout joint	3.20	3.24	3.00
7,360 sq.yd. granite block relaid, grout joint	.85	.98	1.00
4,165 sq.yd. granite block, furnished and laid in Columbia Rd. 4 in. deep	3.30	3.14	3.00
75 sq.yd. crosswalk, relaid, gravel joint	.75	.50	1.00
40 sq.yd. crosswalk, relaid, asphalt joint	1.00	1.10	1.00
10 existing crosswalk, relaid, asphalt joint	.80	1.05	1.10
430 sq.yd. crosswalk hauled and laid grout joint	.85	.99	1.00
415 sq.yd. crosswalk existing relaid, grout joint	.80	.96	1.00
8,040 sq.yd. wood block paving furnished and laid	2.65	2.60	2.73
1,770 sq.yd. new brick sidewalks laid	.35	3.50	.90
4,080 sq.yd. sidewalks relaid	.28	.33	.35
80,210 sq.ft. artificial stone sidewalks	.17	.16	.16
1,330 sq.ft. driveways, furnished and laid	.20	.17	.20
20 tons crushed stone, furnished and placed	2.25	2.00	2.00
Extended totals	$186,375	$189,575	$198,979
Extended totals, Group 1 and 2	$362,365	$400,453	$435,226

AMERICA TO IMPROVE THE GRAND CANAL

The Far Eastern Review says, in its June issue, that it is the desire of the Chinese Government to make what is known as the Hwai River conservancy scheme—for the carrying out of which the Americans have an option—of greater benefit to the millions of people within the area embraced by it by rendering the Grand Canal fit for navigation and at the same time reclaiming large areas of territory now made impossible of cultivation or habitation by the vagaries of water which might easily be confined within definite limits. In order to have the Canal between the Yangtsze and Yellow Rivers put upon a paying basis commercially and otherwise the Government has entered into an agreement with the American International Investment Corporation, with whom are connected the contracting firm of Messrs. Siems and Carey, of Minneapolis. The work is estimated cost to about $6,000,000 gold, and if carried out will prove of incalculable benefit to China and all commercial nations interested in the transportation of merchandise to and from the regions traversed or fed by the Grand Canal. This famous waterway has been so long neglected by previous governments that it has become silted in many places and what should be a blessing has been converted into a curse in those places where water has inundated what otherwise would be valuable arable land.

SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until Sept. 19, 1916.

State Highway Work

STATE OF MARYLAND
STATE ROADS COMMISSION
NOTICE TO CONTRACTORS.
Baltimore, Md.

Sealed Proposals for the following:

Contract No. 0269—
BALTIMORE AND CARROLL COUNTIES:

Repairing bridge over Patapsco River along Reisterstown Road between Baltimore and Carroll Counties.

Contract No. W. B. S.—
BALTIMORE AND HOWARD COUNTIES:

For building sections of concrete shoulder along the Baltimore and Washington Boulevard in Baltimore and Howard Counties.

Contract No. D-19—
DORCHESTER COUNTY:

For building one section of road between Church Creek and Taylor's Island, about 5.25 miles in length. (Concrete or macadam.)

Contract No. 0215-Br.—
WASHINGTON COUNTY:

Repairing bridge over Conocheague River along the State Highway.

will be received by the State Roads Commission, at its office, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 19th day of September, 1916, at which time and place they will be publicly opened and read.

Bids must be made upon the blank form contained in the book of specifications. Specifications and plans will be furnished by the Commission upon application and cash payment of $1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred ($500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission, this 1st day of September, 1916.

FRANK H. ZOUCK, Chairman.
CLYDE H. WILSON, Secretary.

⁂

Bids received until Sept. 26, 1916.

Street Improvement

Borough of Belmar, N. J.

Notice is hereby given that sealed bids will be received by the Borough Council of the Borough of Belmar, N. J., for the improvement of F Street in the Borough of Belmar, N. J., in the County of Monmouth, with one-course concrete surface; estimated amount of surface pavement required is 15,150 square yards; and opened and read in public at Borough Hall, Belmar, N. J., on Tuesday, September 26, 1916, at 8 P.M.

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by Clyde Potts, Engineer, and approved by the State Commissioner of Public Roads, have been filed in the office of the said engineer at Belmar, N. J., and 30 Church Street, New York City, and of said Commissioner at the State House, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawing by the engineer on proper notice and payment of the cost of preparation. Bids must be made on the standard proposed forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder on the outside, addressed to Borough Clerk, Belmar, N. J., and must be accompanied by a certified check or cash for not less than $1,000.00, and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to engineer.

By order of Borough Council of Belmar.

CHARLES O. HUDNUT, Clerk.
August 30, 1916.

⁂

Bids received until Sept. 15, 1916.

Sewers and Sewage Disposal

Village of Piermont, N. Y.

Sealed proposals addressed to A. D. Cornell, Clerk of the Board of Sewer Commissioners, will be received by the Board of Sewer Commissioners of the Village of Piermont, New York, until 8 P.M., Friday, September 15th, 1916, and will be opened and read immediately thereafter by said Board, for the construction of a system of sewers and sewage disposal. The work to be estimated upon includes "Contract A," the construction of 16,540 feet of 8-inch, 10-inch, 12-inch and 15-inch pipe sewers with manholes and flush tanks, and "Contract B," a sewage-disposal plant.

A certified check for $5,000 on "Contract A" and $2,000 on "Contract B" shall accompany each proposal. The Board of Sewer Commissioners reserve the right to reject any or all bids, to award the contract to any bidder or to accept the bid submitted which in their judgment is for the best interests of the Village.

Plans and specifications can be seen at the residence of A. D. Cornell, Clerk of the Board of Sewer Commissioners, and can be seen and copies secured at the office of the engineer, Alexander Potter, Esq., 50 Church St., New York City, on or after September 1st, 1916, upon the deposit of $10.00, which will be returned if plans and specifications are returned in good condition before Sept. 15th, 1916.

CHARLES C. MAIN,
EDWARD ACKLEY,
WILLIAM N. BRADY,
Board of Sewer Commissioners.
A. D. CORNELL, Clerk.
ALEXANDER POTTER,
Consulting Engineer.
Dated Piermont, N. Y., August 25, 1916.

⁂

U. S. ENGINEER OFFICE, Louisville, Ky.—Sealed proposals for furnishing and delivering Stoney gate valves and accessories for Lock No. 41, Ohio River, will be received here until 12 noon, Central time, September 23, 1916, and then opened. Information on application.

Bids received until Sept. 21, 1916.

Street Construction

Paducah, Ky.

Sealed proposals for street construction will be received by the Commissioner of Public Works of the City of Paducah, at his office in the City Hall, until 10:00 A.M., Standard Time, on Thursday, September 21st, when they will be publicly opened and read.

The approximate total quantity of work is 27,500 square yards, divided into three contracts. Bids will be received on sheet asphalt, bitulithic, monolithic brick, and concrete. The work under one of the contracts must be done this year; the other two contracts are to be undertaken and completed in the Spring of 1917.

Each bid must be accompanied by a certified check for Five Hundred ($500.00) Dollars. The successful bidder will be required to give bond equal in amount to forty (40%) per cent. of the contract price. A five-year maintenance bond in the sum of twenty-five (25%) per cent. of the cost of the work will be required at the time of acceptance of the work.

Plans and specifications may be seen at the office of the said Commissioner, and copies of instructions for bidders, proposal, contract and specifications will be mailed on request.

The right is reserved to reject any and all bids and to waive informalities.

L. A. WASHINGTON,
Commissioner of Public Works.

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Bids received until Sept. 12, 1916.

Indestructible Road Signs

Borough of Richmond, N. Y. C.

The President of the Borough of Richmond will receive bids for approximately 930 indestructible road signs until September 12th, 1916, at 12 o'clock M. Bidders are requested to furnish sample of sign, together with price for the same. Samples to be furnished at the office of the President of the Borough and the signs of the successful bidder to be delivered to the storeyard at DuBois Avenue, West New Brighton, S. I.

The sign adopted by the President of the Borough shall be complete so far as lettering, shop work for field riveting and the necessary bolts and attachments complete.

Further information may be had upon application at the office of the President of the Borough of Richmond.

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Bids received until Sept. 12, 1916.

Storm Sewer

Columbus, Ohio.

Bids will be received until noon, September 12, 1916, for Section 3, Third Av. Relief Sewer; estimated cost, $65,000.

4,700 lin.ft. 72" 500 lin.ft. 60"
1,530 lin.ft. 24" 1,150 lin.ft. 20"
810 lin.ft. 18" 170 lin.ft. 15"

with catchbasins, manholes, etc.

Bidding blanks and information from Henry Maetzel, Chief Engineer, City Hall Columbus, Ohio.

Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Maryland—Baltimore & Ohio Railroad Co., Baltimore, applied to Pub. Utilities Comn. for permission to issue $15,000,000 bonds for improving its own lines, also those of Baltimore, Ohio & Chicago Railroad Co., Baltimore, Ohio & Southwestern Railroad Co. and Ohio & Little Kanawha Railroad Co. R. N. Begien, Baltimore, Ch. Engr.

West Virginia—Wheeling & Eastern R R. granted charter to construct railway from Wheeling, W. Va., to McCanns Ferry, Penn. T. H. Swartz, Wheeling, Secy. Noted May 25.

North Carolina—G. Norwood, Goldsboro and associates, interested in railway from Goldsboro to Seven Springs, about 14 mi.

North Carolina—(Press)—Southern Ry. made plans for improving and enlarging shifting yards at Greensboro. B. Herman, Washington, D. C., Ch. Engr. M. W. and Struct.

Florida—T. R. Osmond, St. Augustine, interested in electric railway from St. Augustine to Jacksonville, about 40 mi.

Louisiana—Alexandria & Western Ry. plans line west from Gardner to Leesville. L. C. Lawless, Garden City, Gen. Mgr.

Ohio—Baltimore & Ohio Railroad Co. plans cut-off on Cincinnati, Hamilton & Dayton Ry. between Lebanon Junction and North Dayton. R. N. Begien, Baltimore, Md., Ch. Engr.

Ohio—Pennsylvania Lines West of Pittsburgh plans to extend line from Toledo to Detroit, Mich., about $40,000,000. T. Rodd, Pittsburgh, Ch. Engr.

Illinois—Wabash Railway Co. plans to double-track line from Decatur, Ill. to Hannibal, Mo. A. O. Cunningham, St. Louis, Mo., Ch. Engr.

Nebraska—Omaha, Lincoln & Beatrice Interurban Railway Co., Lincoln, applied to Railway Comn. for permission to increase bond issue to complete line from Lincoln to Omaha. J. M. Bramlette, Lincoln, Gen. Mgr.

North Dakota—Equity Engineering Co., Fargo, making surveys for proposed line from Dickinson to Amidon.

Texas—Missouri, Kansas & Texas Ry. plans to re-lay its tracks on division between Whitesboro and Wichita Falls. L. F. Lonnbladh, Dallas, Ch. Engr.

Texas—San Antonio Traction Co., San Antonio, plans double track on South Flores St. and 800-ft. additional spur tracks. H. Henson, San Antonio, Pur. Agent.

Oklahoma—Atchison, Topeka & Santa Fe. Ry. plans line from Sumpter to Blackwell oil field. C. F. W. Felt, Chicago, Ill., Ch. Engr.

Oklahoma—Sapulpa & Interurban Ry. purchased by Union Trust Co., St. Louis. New owners will transfer road to Midland Valley R.R. whose lines will then be extended from Glenn Pool to Kiefer.

Washington—Oregon-Washington Railroad and Navigation Co. plans line from Murray branch to Ray-Jefferson mine. Spokane, about 10 mi. S. Murray, Portland, Ore., Ch. Engr.

Oregon—City, Klamath Falls, election soon to vote on $300,000 bonds for Strahorn Central Oregon R.R. Keeler Bros , Denver, Colo., interested.

California—Atchison, Topeka & Santa Fe Ry. granted permission by City Trustees, Porterville, for railway across several streets. C. W. W. Felt, Chicago, Ill., Ch. Engr.

California—Atchison, Topeka & Santa Fe Ry. securing right-of-way for branch line from Visalia through Tulare County. C. F. W. Felt, Chicago, Ill., Ch. Engr.

California—Western Pacific Ry. plans line to Surprise Valley, San Francisco, about 90 mi. T. G. Wyche, San Francisco, Ch. Engr.

Ontario—Guelph Radial Co., Guelph, plans 3,000 ft. new track. A. H. Foster, Guelph, Gen. Mgr.

Ontario—Ontario Hydro Comn., Toronto, making plans for radial railways, about $25,000,000. A. Beck, London, Chn.

Ontario—Sudbury-Copper Cliff Electric Railway Co. plans extension from Sudbury flour mill to Murray nickel mine, about 4 mi., and one from Sudbury flour mill to plant of Mond Nickel Co. at Coniston, about 19 mi. J. H. Mackey, Sudbury, Pres.

Saskatchewan—Council plans 1,200 ft. double track on provincial bridge at 25th St. and Saskatoon Municipal Ry., Saskatoon. G. D. Archibald, City Hall, Saskatoon, Supt.

Bids In and Contracts Awarded

Maine—Maine Central R.R. let contract enlarging yards at Waterville to T. STUART & SONS CO., Newton, Mass., and LATHROP & SHEA CO.. New Haven, Conn. Noted Mar. 16.

South Carolina—Southern Ry. let contract double-tracking line between Spartanburg and Lawson's Fork to BROOKS-CALLAWAY CO., Atlanta.

Wisconsin—Marengo, Lake Geneva & Northern Railway Co. let contract for completing road from Marengo to Delevan to CORTLAND ENGINEERING CO., 42 Broadway, New York.

Texas—Lubbock & Great Northern Railroad Co. let contract line from Lubbock, Tex., to Hollis, Okla., about 135 mi., to connect with Missouri Kansas & Texas Ry. to J. P. NELSON, San Antonio. Noted Aug. 10.

LIGHT, HEAT AND POWER

Proposed Work

N. Y., Ogdensburg—Aluminum Co. secured right-of-way for power transmission line to Ogdensburg.

N. Y., Union Springs—Union Springs Light and Power Co. made plans to improve and extend system. Noted Aug. 31.

N. J., Hamburg—See item under "Water-Works."

N. J., Pompton Lakes—See item under "Water-Works."

Penn., Allentown—Bascom & Sieger, Engr., submitted plans to Council for electric-light plant.

Penn., Beaver Falls—Duquesne Light Co., Pittsburgh, purchased plant of Beaver County Light Co. and plans to improve same. About $1,000,000. F. Vhlenhant, Jr., Pittsburgh, Ch. Engr.

Md., Towson—State Normal School plans to install electric-light plant.

Fla., Havana—See item under "Water-Works." Noted May 25.

Fla., Miami—City sold $25,000 bonds for electric-light plant and water-works. H. E. Elrod, Dallas, Engr.

Mich., Grand Haven—City plans 3 mi., 6,000-volt transmission line and 200,000 gal. pump in electric-light plant. I. R. Ellison, City Mgr.

Mich., Hamburg—L. M. McCleary, Gregory, plans electric-lighting system in Hamburg.

Ill., Clayton—I. W. Fisk, Champaign, making surveys for electric-light plant in Clayton.

Ill., Geneseo—City voted $48,000 bonds for electric-light plant. B. S. Gray, City Atty. Noted Apr. 27.

Wis., Broadhead—Water and Lighting Comn. plans to rebuild power plant or erect new one.

Iowa, Des Moines—Des Moines City Railway Co. soon lets contract for rebuilding power station.

Minn., Hendrum—Village Council plans electric-lighting system.

Minn., Hibbing—City making plans for power plant. C. L. Pillsbury Co., Metropolitan Bldg., Minneapolis, Engr.

Minn., Hoffman—Village receiving bids Sept. 20 for electric transmission line and distribution system. E. D. Jackson, St. Paul, Consult. Engr.

Minn., Pipestone — Northwestern Light and Power Co. plans transmission line to supply electricity to Edgerton, Woodstock, Jasper and Trosky.

S. D., Garretson—City voted $18,000 bonds for enlarging electric-light plant.

S. D., Worthing—W. F. Donahue, Worthing, granted franchise by Council to construct electric-light plant in Worthing.

N. D., Munich—O. J. Anthony and associates plan electric-light plant in Munich.

Mont., Columbia Falls—Montana Power Co., Butte, plans addition to power house, about $500,000.

Mont., Denton—Montana Power Co., Great Falls, plans electric-lighting system in Denton.

Ark., Waldron—Waldron Power and Ice Co. plans electric-light plant.

Okla., Wayne—City Council plans electric-light plant.

Ore., Myrtle Creek—City voted $27,000 bonds for improving electric-light plant and water-works system. M. B. Germond, Redmond, Engr. Noted Aug. 17.

Calif., Sacramento—City plans electric-light plant. F. C. Miller, City Engr.

Ont., Elmwood—Village Council plans hydro-electric power and lighting system.

Sask., Nokomis—City plans electric-light plant.

Bids In and Contracts Awarded

N. H., Manchester—Manchester Traction Co. let contract addition to substation to W. M. BAILEY CO., 88 Broad St., Boston.

Mass., Salem—Eastern Massachusetts Electric Co. let contract transformer station on Highland Ave. to CLARK & LEE CO., 201 Devonshire St., Boston. About $20,000.

Ill., Moline—People's Power Co. let contract 2-story, 32x104-ft. rein.-con. transformer building on 4th St. to H. W. HORST CO., Rock Island. About $80,000.

Minn., Lamberton—City let contract transmission line from Lamberton to Wabasso to PEOPLE'S ELECTRIC LIGHT AND POWER CO., Lamberton.

Neb., Omaha—Omaha Electric Light and Power Co. let contract addition to power plant to JARRETT-CHAMBERS CO., 30 East 42d St., New York. About $1,000,000. Noted Aug. 17.

N. D., Lankin—City let contract electric-light and power plant to M. S. HYLAND, Fargo. Noted June 29.

BRIDGES

Proposed Work

Conn., Mystic—New York New Haven & Hartford R.R. plans new bridge over Mystic River. E. Gagel, New Haven, Ch. Engr.

N. Y., Feura Bush—New York Central R.R. plans bridge over Hudson River at Feura Bush consisting of 2 spans each 474-ft. long with level approaches on each side of river. E. L. Jenkins, Utica, Superv. Bridges, East of Buffalo.

N. Y., Seneca Falls—New York Central R.R. made plans for bridge over Seneca River. K. W. Kittredge, Ch. Engr.

N. Y., Union—Towns of Vestal and Union plan $60,000 bond issue for bridge over Susquehanna River. C. Van Amburgh, Binghamton, County Supt. Highways.

N. J., Chatham—Bd. Freeholders Morris County authorized $50,000 bond issue, part of which will be used for bridge on Summit Ave. Address County Clk., Morristown. Noted Aug. 31.

N. J., Newark—City receives bids about Sept 21 (extension of date), for steel bridge over tracks of Central R.R. of New Jersey on Port St. M. R. Sherrard, City Engr. Noted Aug. 24.

Penn., Meadville—State Highway Dept. plans bridge over Muddy Creek, Crawford County. T. A. Gilkey, New Castle, Engr.

Penn., Washington—Washington County appointed committee to report on proposed inter-county bridge between Fayette City and Allentown, about $200,000. Address County Clk., Washington.

Md., Baltimore—State Roads Com. receiving bids Sept. 26 for rein.-con. arch bridge over Western Run on York Rd.

Md., Frederick—Frederick County plans bridge between Thurmont and Sabillasville. Address County Clk., Frederick.

Va., Richmond—Council plans 5,500-ft. concrete bridge over James River between Laurel St. and Cowardine Ave., about $300,000. C. E. Bolling, City Engr.

Va., Sussex—(Official)—Sussex County receiving bids Sept. 21 for rein.-con. bridge over Spring Swamp. Address County Clk., Sussex. G. P. Coleman, Richmond, State Highway Comr.

W. Va., Charleston—City receiving bids Oct. 7 for highway bridge across Campbell's Creek.

W. Va., Franklin—(Official)—Pendleton County receiving bids Sept. 25 for 2 bridges. Address County Clk., Franklin.

W. Va., West Union—County Court receiving bids Sept. 23 for bridges across South Fork of Hughes River and Robinsons Fork Creek. H. Hutson, Clk.

S. C., Charleston—City Sanitary and Drainage Com. plans causeway between Mt. Pleasant and Sullivan's Island. J. H. Dingle, City Engr.

Fla., Deerfield—(Official)—City receiving bids Oct. 3 for steel highway bridge. H. C. Davis, Ft. Lauderdale, Engr.

Fla., Hallandale — (Official) — City receiving bids Oct. 3 for steel highway bridge. H. C. Davis, Ft. Lauderdale, Engr.

Fla., Miami—Dade County voted $600,000 for causeway over Biscayne Bay, about 17,000 ft. Klyce & Kackley, Real Estate Bldg., Engr. Noted Aug. 24.

Ala., Little River—Monroe County receiving bids Oct. 3 for 80-ft. rein-con. bridge over Little River. Address County Clk., Monroeville.

Ala., Montgomery—Plans made for bridge over Tallapoosa River between Montgomery and Elmore Counties, about $50,000. Address County Clk., Montgomery. Noted Sept. 7.

Miss., Allen—Illinois Central R.R. plans 534-ft. bridge. A. S. Baldwin, Chicago, Ill., Ch. Engr.

Bridges (Continued)

La., Crowley—Police Juries of Acadia and Jefferson Davis Parishes plan bridge over Mermentau River, about $50,000. Address Clk., Crowley.

La., New Orleans—City election Nov. 7 to vote on constitutional amendment authorizing bridge or tunnels over Mississippi River at New Orleans. Public Belt R.R. Comn. in charge of work and has appointed committee to study situation. Noted June 15.

Tenn., Lawrenceburg—Lawrence County Highway Comn., receiving bids Sept. 20 for culverts and bridges in connection with 36 mi. road. E. G. Parkes, Lawrenceburg, Secy.

Ky., Lebanon Junction—City plans bridge over Wilson Creek to connect with village of Boston.

Ky., Richmond—Madison County plans election Nov. 7 to vote on $35,000 bonds to pay part of cost of bridge over Kentuck River at Clays Ferry. Address County Clk., Richmond.

Ohio, Akron—Summit County receiving bids Sept. 23 for Johnson Corners Bridge on Akron-Wooster Rd., Norton Township. U. G. High, Akron, Clk. Noted Aug. 24.

Ohio, Columbus—County Comrs. making plans for bridge at 3d St. over Olentangy River. Will soon receive bids. About $80,000. Address County Clk., Columbus. Noted Aug. 31.

Ind., Ft. Wayne—Allen County appropriated $7,500 for bridge over Spy Run Creek on 4th St. Address County Clk., Ft. Wayne.

Ind., Richmond—Wayne County plans 2 concrete bridges, about 600-ft. long, over Whitewater River, about $400,000. Address County Clk., Richmond.

Mich., Battle Creek—City plans concrete bridge over Burnham Brook on Garfield Ave. E. N. Hunt, City Engr.

Mich., Manistee—Manistee County election Nov. 7 to vote on $5,600 bonds for bridge over Manistee River. Address County Clk., Manistee.

Ill., Pittsfield—(Official)—Pike County receiving bids Sept. 20 for steel or concrete bridge in Pleasant Vale Township. Noted July 27.

Iowa, Bloomfield—Iowa Highway Comn., Ames, making plans for two 65-ft. pony truss spans and one 26-ft. 8-beam span. H. O. Wray, Bloomfield, County, Engr.

Iowa, Charles City—Iowa Highway Comn., Ames, making plans for pony truss span bridge over Little Cedar River between Sects. 26 and 35, Niles Township. G. H. Elliott, Charles City, County Engr.

Iowa, Independence—Buchanan County making plans for 3 span rein.-con. bridge over Wapsinicon River, about $42,000. E. A. Bordner, Independence, Audr.

Minn., Bethel—(Official)—Board County Comrs. receiving bids Sept. 22 for bridges Nos. 1784, 2195 and 2381. A. A. Caswell, Bethel County Audr. Noted Aug. 17.

Minn., St. Peter—City receiving bids Sept. 25 for 65-ft. steel or concrete bridge. M. E. Stone, City Clk.

Minn., Shakopee—Scott County voted $15,000 bonds for repairing bridge over Minnesota River. A. J. Mayer, Shakopee, Audr. Noted July 6.

Neb., Fremont—Dodge County receiving bids Sept. 26 for bridge work for 1 year. J. O'Connor, Fremont, Clk.

N. D., Bismarck—Bismarck Commercial Club plans wagon bridge over Missouri River, about $250,000.

Mont., Miles City—Custer County plans 60-ft. steel bridge over Fallon Creek near Ishmay. Address County Clk., Miles City.

Mo., Kansas City—(Official)—Bd. Pub. Wks. receiving bids Sept. 26 for rein.-con. arch bridge over Brush Creek at Troost Ave. About $20,000. Curtis Hill, City Engr. Noted Aug. 31.

Mo., Kansas City—(Official)—Bd. Pub. Wks. receiving bids Sept. 26 for rein.-con. arch bridge over McGee St. Trafficway at 26th St. About $14,500. Curtis Hill, City Engr.

Mo., Kansas City—(Official)—Bd. Pub. Wks. receiving bids Sept. 26 for rein.-con. bridge over Wyandotte St. on 31st St. About $11,700. Curtis Hill, City Engr.

Mo., Kansas City—(Official)—Bd. Pub. Wks. receiving bids Sept. 26 for rein.-con. culvert on 51st St. near Indiana Ave. About $5,000. Curtis Hill, City Engr.

Tex., Gainesville—Chamber of Commerce revived project to build toll bridge over Red River near Gainesville, about $50,000.

Tex., Galveston—Galveston County making plans for 4 concrete bridges on Alta Loma-Dickinson Rd.

Okla., Arnett—State Highway Dept., Oklahoma, plans to spend about $10,000 for bridge work in Ellis County.

Okla., Blackwell—Kay County Court appropriated $6,000 as part of cost for bridge over Salt Fork connecting Kay and Noble Counties. Address County Clk., Blackwell.

Okla., Eufaula—State Highway Dept. Oklahoma, plans to spend about $14,000 for bridge work in McIntos County.

Okla., Terrell—City plans bridge over Red River between Oklahoma and Texas.

Okla., Walter—State Highway Dept., Oklahoma, plans to spend about $6,000 for bridge work in Cotton County.

Wash., Spokane—City receiving bids Sept. 28 for concrete bridge over Spokane River on Washington St., about $25,000. M. Macartney, City Engr.

Ore., Portland—Multnomah County receiving bids Sept. 20 for rein.-con. viaduct No. 7 on St. Helen's Rd. J. B. Yeon, Portland, County Rd. Master.

Calif., Riverside—City plans bridge at West Riverside. A. P. Campbell, City Engr.

Calif., Santa Rosa—Sonoma County appropriated $27,000 for repairing Alexander Valley Bridge. Address County Clk., Santa Rosa.

Calif., San Bernardino—San Bernardino County receiving bids Sept. 25 for 108-ft. steel bridge over San Timotee Creek. L. R. Patty, San Bernardino, County Clk.

Calif., Springville—Tulare County soon receives bids for bridge at Springville, about $6,400. Address County Clk., Visalia.

Ont., Middleton—City making plans for bridge at Watson's Mills. D. W. White, Courtland, Clk. Aug. 31.

Bids In and Contracts Awarded

Conn., Windsor—City let contract superstructure new bridge over Farmington River to BERLIN CONSTRUCTION CO., Berlin.

N. Y., New Hartford—City let contract rein.-con. bridge to W. E. COGLEY, 11½ Waverly Pl., Utica, $4,372. Noted Aug. 31.

N. J., Cape May—Cape May County let contract bridge over Richardson Channel to BRIDGETON CONSTRUCTION CO., Bridgeton, $15,000.

Penn., Coatesville—Philadelphia & Reading Ry. let contract rein.-con. bridge to BENNETT & RANDALL, Lancaster.

Penn., Edri—Pennsylvania R.R. let contract bridge over Robinson Run to G. C. OVERDORFF, Blairsville, $14,000.

Penn., Franklin—County rejected bids for rein.-con. bridge over Scrubgrass Creek.

Penn., Hopewell—Philadelphia & Reading Ry. let contract bridge on New York Div. west of Hopewell to PHOENIX BRIDGE CO., 410 Walnut St., Philadelphia.

Penn., Norristown—Montgomery County let contract repairing bridge over Schuylkill River to BRANN & STEWART, Commercial Trust Bldg., Philadelphia, about $26,000. Noted Aug. 10.

W. Va., Middlebourne—(Official)—County Court let contract bridges to PIPES & WATSON, Middlebourne, $5,098. Noted Aug. 24.

S. C., Gaffney—Cherokee County let contracts 5 bridges to SOUTHERN BRIDGE CO., Birmingham, Ala., 3 bridges to CONVERSE BRIDGE AND STEEL CO., Chattanooga. About $65,000.

Fla., Everglades—Broward County, Ft. Lauderdale, let contract bridge over canal to CHAMPION BRIDGE CO., Wilmington, Ohio, $12,000.

Ala., Eufaula—Barbour County, Clayton, let contract bridge to SCRUGGS CONSTRUCTION CO. Birmingham, $8,900. Noted Aug. 10.

Tenn., Trenton—Gibson County Comrs. let contract 9 bridges to VIRGINIA BRIDGE AND IRON CO., Roanoke, Va. About $17,500.

Ohio, Cincinnati—Hamilton County let contract repairing 5 bridges to GRADISON CONSTRUCTION CO., $4,375.

Ohio, Lancaster—Fairfield County rejected bids for bridge over Rush Creek connecting Fairfield and Perry Counties.

Ind., Decatur—(Official)—Adams County let contract Jack Bridge, Monroe Township, to BURK CONSTRUCTION CO., New Castle, $6,700. Noted Aug. 24.

Mich., Benton Harbor—City let contract repairing Edwards Ave. Viaduct to ILLINOIS BRIDGE CO., $13,270. Noted June 1.

Mich., Birmingham—City let contract 5 ornamental bridges on Quarton Lake Estates to J. E. KOTH, Detroit, $7,500.

Wis., Washburn—City let contract culverts to E. OLSON, Port Wing, about $7,190.

Iowa, Denison—Crawford County let contracts bridges to E. McNEAL, Beloit, $11,712; H. GRILL, Denison, $29,736, and MANNING CEMENT CO., Manning, $5,822.

Iowa, Webster City—County let contract 4 bridges and culverts to MORRISON CONSTRUCTION CO., Des Moines, $7,804.

Minn., Sartell—Stearns County, St. Cloud, let contract bridge over Sauk River to PLYMOUTH CONSTRUCTION AND REPAIRING CO., Minneapolis, $10,000.

S. D., Salem—(Official)—McCook County let contract 5 concrete bridges to W. A. BARNHART CONSTRUCTION CO., Salem. About $4,543. Noted Aug. 24.

Okla., Nowata—Nowata County let contract bridges and culverts on Nowata State Highway to CANTON BRIDGE CO., Canton, Ill. Noted Aug. 2.

Okla., Sulphur—Murray County let contract suspension bridge to ILLINOIS BRIDGE CO.

Ariz., Ray—Pinal County let contract steel bridge over Mineral Creek to TOPEKA BRIDGE AND IRON CO., Topeka, Kan., $11,995. Noted Aug. 3.

Wash., Colfax—City let contract bridge over Paradise Creek to H. C. MALOTT, Seattle, $5,862.

Calif., Chico—City let contract bridge over Little Chico Creek to T. H. POLK, $4,243.

Calif., Quincy—(Official)—Plumas County rejected bids for 2 rein.-con. bridges. Noted Aug. 24.

Calif., San Bernardino—(Official)—Board Superv. let contract 2 steel truss highway bridges across Santa Ana River to MERCEREAN BRIDGE AND CONSTRUCTION CO., Los Angeles, $20,200. Noted Aug. 10.

Calif., San Diego—H. G. Fenton, Owl Drug Co. Bldg., at $8,575, low bidder bridge over Otay River on National Ave.

Ont., Grey—Grey County let contract bridge to WILLIAM CLARK, 3d Ave., W., Owen Sound.

WATER-WORKS

Proposed Work

Maine, Waterville—Kennebec Water Dist. receiving bids Sept. 16 for reservoir in Waterville and Fairfield. Metcalf & Eddy, 14 Beacon St., Boston, Engr.

N. Y., Lockport—Water Bd. directed to replace 4-in. pipe in Prospect St. with 6-in. pipe to connect with Park Ave. main. F. S. White, Supt.

N. Y., Newburgh—City plans reservoir at Washington Lake.

N. J., Hamburg—(Official)—City plans water system and electric-light plant. About $60,000. J. B. Rider, 29 Broadway, New York, Consult. Engr.

N. J., Pompton Lakes—(Official)—Borough plans to improve and enlarge water system and electric-light plant. J. B. Rider, 29 Broadway, New York, Consult. Engr. J. O. Wells, Chn. Com.

Penn., Allentown—City passed ordinance for 8-in. water mains in portion East Court St. William H. Reichard, Supt.

Penn., Galeton—Borough Comrs. making plans for water system.

Penn., Philadelphia—City plans new water system, about $5,000,000. A. J. Fuller, Gen. Mgr.

Penn., Phillipsburg—Citizens Water Co. plans storage reservoir, about $40,000.

Penn., Thornburg—Council passed ordinance authorizing South Pittsburgh Water Co. to install water mains in Thornburg.

Penn., Waynesboro—Waynesboro Water Co. plans reservoir and pipe line. J. P. Funk, 6 North Church St., Supt. M. Knowles, Oliver Bldg., Pittsburgh, Engr.

Md., Brunswick—City voted $75,000 water-works bonds. Bird & Whitman, 1320 Munsey Bldg., Baltimore, Engr. Noted Apr. 2.

N. C., North Wilkesboro—City plans $25,000 bond issue for water system. A. E. Spainhower, Mayor. Noted May 11.

S. C., Chester—City plans to extend Pinckney St. water main. J. Hamilton, City Engr.

S. C., Columbia—City receiving bids Sept. 19 for about 6 mi. c.-i. water pipe. T. K. Legare, City Engr. Noted Jan. 13.

Ga., Cave Springs—See item under "Sewers."

Ga., Dublin—City receiving bids Oct. 4 for $36,000 filter plant bonds. J. A. Kelley, Chn. Water and Light Comn. Noted Aug. 3.

Ga., Manchester—City election Sept. 18 to vote on $36,000 water-works bonds. W. M. Moore, Mayor. Noted July 13.

Fla., Havana—Bd. Pub. Wks. receiving bids Oct. 23 for water system and electric-light plant. Noted May 25.

Fla., Jacksonville—(Official)—City receiving bids Oct. 4 for horizontal cross-compound crank and flywheel pumping engine at water-works pumping station. W. M. Bostwick, Jr., Ch. Bd. Bond Trustees. (See adv.)

Fla., Miami—See item under "Light, Heat and Power."

Tenn., Knoxville—City election to vote on $225,000 water bonds postponed from Sept. 30 to Oct. 24. J. G. Crumbliss, Comr. Noted Aug. 17.

Ohio, Bellefontaine—City plans to install additional pump, about $15,000.

Ohio, Cleveland—City receiving bids Sept. 20 for water mains in Ardoon, Gomers, Kemper, Hadden, North and South Moreland, Shaker and East 132d St. Robert Hoffman, City Engr.

Ohio, Cleveland Heights—(Warrensville post office)—Village receiving bids Oct. 16 for water mains, sewers and paving on Lancashire Rd. and sewers in Cedar Rd. F. A. Pease Engineering Co., 806 Marshall Bldg., Cleveland, Engr.

Ohio, Cygnet—(Official)—City plans to vote in November on bonds for water system.

Ohio, East Palestine—City plans to spend about $15,000 for improving water system. W. H. Van Fossen, Supt.

Ohio, Lorain—City plans to rebuild filter plant, about $75,000. A. J. Horn, Dir. Pub. Ser. C. M. Osborne, City Engr.

Ohio, Newburg Heights—(Cleveland post office)—See item under "Sewers."

Ohio, Shaker Heights—(Cleveland post office) Village receiving bids Sept. 19 for 6-in. water main and storm and sanitary sewer in portion South Park Blvd., also paving, curbing and sidewalks. C. A. Palmer, First National Bank Bldg., Cleveland, Clk. B. W. Willard, 627 Engineers Bldg., Cleveland, Engr.

Water-Works (Continued)

Ind., East Chicago—East Chicago and Indiana Harbor Water Co. making plans for filter plant, about $80,000. E. Jenkins, 4735 Olcott Ave., Chicago, Ill., Supt. Alvord & Burdick, 8 South Dearborn St., Chicago, Ill., Engr.

Ind., Middlebury—City plans water system.

Ind., Richmond—(Official)—Wayne County rejected only bid received for water system. New bids. L. S. Bowman, Richmond, Audr. Noted Aug. 31.

Mich., Alma—City voted $100,000 bonds for extending water and sewer systems, also pumping station. P. E. Gallagher, City Clk.

Mich., Constantine—City election soon to vote on $11,000 water-works bonds. A. E. Tracy, City Clk. Noted June 15.

Mich., Flint—City making plans for filter plant, about $272,000. F. N. Baldwin, City Supt. Pittsburgh Filter Manufacturing Co., Pittsburgh, Penn., Engr. Noted Aug. 24.

Mich., Wyandotte—E. D. Rich, State Sanitary Engr., recommended that city employ engineer to prepare preliminary plans and submit estimate of cost of filter plant.

Ill., Belleville—Bd. Local Impvts. plans new settling tank, about $20,000. W. C. Wolf, City Engr.

Ill., Moline—City plans 12-in. water main in Bausch's Addition. L. O. Jahns, Comr.

Ill., Oglesby—City plans to extend water system, about $25,000. J. Corgiat, Clk.

Ill., Rock Island—City plans water mains in 9th, 11th, 12th and 14th St., about $12,000. R. W. Sharp, Supt.

Ill., Staunton—Citizens voted $15,000 water-works bonds. C. Schneers, Supt.

Ill., West Point—(Official)—City does not plan to vote on $15,000 water bonds as noted in Aug. 31 issue.

Wis., Marshfield—City rejected bids for 7,000-ft. 6-in. c.-i. water mains. New bids in spring. J. Seubert, City Clk.

Wis., Wauwatosa—City received no bids for water main in 7th Ave. A. W. Brigham, City Clk.

Minn., Rochester—City plans to improve water system, about $35,000. C. L. Pillsbury Co., Minneapolis, Engr.

Minn., West St. Paul—(St. Paul post office)—City voted $40,000 water-works bonds. J. F. Druar, Consult. Engr. Noted Aug. 24.

Kan., Augusta—City plans election to vote on $10,000 water-works bonds. W. B. Jones, Supt.

Kan., Caney—City making plans for improving water system. Black & Veatch, 507 Interstate Bldg., Kansas City, Mo., Engr.

Kan., Ellis—City soon lets contract for improving water system, about $16,000. R. C. Gall, Supt. Black & Veatch, Kansas City, Mo., Engr. Noted Aug. 24.

Kan., Galena—City making plans for filter plant, about $50,000. Burns & McDonnell, 400 Interstate Bldg., Kansas City, Mo., Engr. Noted Aug. 10.

Kan., Larned—City receiving bids Sept. 18 for improving water system. L. D. Burgess, City Clk.

Kan., Powhattan—City election soon to vote on proposition to install water system.

Kan., Robinson—City election soon to vote on bonds for water system. Noted Sept. 7.

Neb., Hopkins—Citizens defeated water-works bonds.

N. D., Fargo—(Official)—City receiving bids Oct. 4 for mechanical smokers or smoke eliminating and fuel saving devices in boiler furnaces of water-works pumping station. A. R. Watkins, City Audr. (See adv.)

Mo., Galena—City soon lets contract for filter plant.

Mo., Trenton—(Official)—City voted $30,000 filter bonds. J. B. Haney, Supt. Noted Aug. 24.

Tex., Edinburg—Council appointed E. M. Card, Engr., Edinburg, to make plans for purification plant.

Tex., Garland—City retained M. Griffin, O'Neil & Son, Dallas, to make investigations and submit estimate of cost of water and sewer systems. G. W. Crossman, Mayor.

Tex., Sunset Heights—(Dallas post office)—City plans new standpipe and 8-in. water main from present standpipe to new reservoir, about $7,500.

Tex., Temple—City soon lets contract for reservoir, about $17,500. D. M. Seybold, Supt. Noted Sept. 7.

Okla., Alpine—City plans election to vote on bonds for water system.

Okla., Hollister—City plans voting on water bonds.

Okla., Marlow—City plans to improve water system. L. A. Ponchett, Supt.

Okla., Redrock—City plans water system.

Okla., Wewoka—City to vote on $30,000 bonds for improving water system.

Colo., Colorado Springs—Brookside Water Co. plans improvements. B. B. Reynolds, Supt.

Ore., Astoria—Astoria Water Comn. approved plans for new main in east end of city, about $40,000.

Ore., Myrtle Creek—See item under "Light, Heat and Power."

Calif., Coalinga—City plans new water system. R. L. Peeler, Mgr.

Calif., Pasadena—City Comn authorized 4-in. c.-i. water main along Del Monte St. J. E. Carpenter, Supt.

Calif., Pasadena—City plans 1 mi. of 8- and 10-in. c.-i. main in Glenarm St. S. Morris, Ch. Engr. Water Dept.

Calif., Pomona—Claremont Co-operative Water Co. plans reservoir on Mountain Ave. G. A. Lathrop, Supt.

Alaska—Council plans high pressure reservoir for Hill section, about $9,000.

Ont., Richmond Hill—City making plans for water tower, pumps, filter and storage basin and 4 mi. pipe line, about $35,000. J. Loudon & Hertzberg, Toronto, Engr.

Ont., Stratford—City plans water mains in Church and Market St. R. R. Lang, Clk.

Ont, Thorold—Town Council plans new pump and motor at water-works, about $1,500. D. J. C. Minro, Clk.

Man., Winnipeg—City making plans for water mains in Telfer Ave.

Bids In and Contracts Awarded

Mass., Danvers—City to spend about $350,000 for improving water system. Contract for reservoir let to A. G. TOMASELLO, 69 Gibson St., Dorchester, pipe to be laid by day labor. P. J. Kelley, Salem, Dir. Pub. Wks.

Mass., New Bedford—City let contract superstructure and appurtenances of pumping station to B. WATKINS, 520 Acushnet Ave., $6,412. Noted Aug. 31.

N. Y., Cobleskill—City let contract extending water main Grand St. to GRIFFEN & GRIFFEN, Cobleskill, $4,300. Noted Apr. 6.

N. Y., New York—(Official)—C. Meads & Co., 38 Park Row, at $46,140, low bidder for controlling mechanisms for riser valves in shafts of city tunnel of Catskill Acqueduct, Contract No. 174. Noted Aug. 10.

N. Y., New York—(Brooklyn)—(Official)—L. D. Gregory, 212 West 138th St., Manhattan, at $4,565, low bidder water mains and appurtenances in Crown, Kinsdale, Sackman, Winthrop, 63rd, 81st, 82nd, 85th and 88th St. and Nostrand and 3rd Ave.

Ohio, Coshocton—City let contract improving water system to PITT CONSTRUCTION CO., $27,437. Noted Sept. 7.

Ohio, Upper Sandusky—(Official)—Upper Sandusky Water Works Co. let contract filter plant to PITTSBURGH FILTER MANUFACTURING CO. Noted Aug. 24.

Ind., Laporte—City let contract water-softening plant and reservoir to LARSON-DANIELSON CONSTRUCTION CO., Laporte, about $25,000. J. F. M. Hardin, Supt.

Mich., Grand Haven—City let contract 2,000,000-gal. electrically driven centrifugal pump to EPSING-CARPENTER CO., Pittsburgh.

Ill., Glasford—City let contract water-works to MONIE-DUNBAR CO., Chemical Bldg., St. Louis, $20,000. Noted Aug. 10.

Ill., Utica—City let contract reservoir to J. O. HYATT, Utica. Noted Aug. 31.

Wis., Elkhorn—Elkhorn Light and Water Comn. let contract water mains to MAGILL BROS.

Iowa, Jewell—City let contract extending water-works to R. L. COX, Webster City, $5,644. Noted Aug. 17.

Iowa, Washington—City let contract reservoir to J. H. SELDEN, Muscatine, $18,990. Noted Aug. 31.

Neb., Wayne—City let contract extending water system to ALAMO ENGINE AND SUPPLY CO., Omaha, $9,632. Noted Aug. 24.

Mont., Sheridan—City let contract water system to H. S. GOULD, Twin Bridges, $28,857. Noted Aug. 31.

Tex., Kennedy—(Official)—City let contract for engine, etc., in connection with water system to LUMMIS COTTON GIN SALES CO., Dallas, and not Lemin Co. and Sales Co. as stated in issue of Aug. 31.

SEWERS

Proposed Work

Mass., Lynn—City making plans for sewer system and disposal plant. About $80,000. W. L. Vennard, City Engr. Noted Mar. 9.

R. I., Providence—City receiving bids Sept. 18 for sewers.

Conn., Stamford—City soon receives bids for storm water drain system in Dyke Sect,. about $15,000. P. Nash, City Engr.

N. Y., New York—(Official)—(Manhattan)—Marcus M. Marks, Borough Pres., Municipal Bldg., receiving bids Sept. 26 for tunnel relief sewer in 46th St. from Hudson River to 7th Ave.

N. Y., New York—(Queens)—Bd. Estimate authorized construction of Corona Sewer. About $183,000.

N. Y., Rochester—Council plans storm-water sewers on Clifford and Martinot Ave. About $27,000. F. T. Elwood, City Engr.

N. Y., Utica—City making plans for about 1 mi. 12- to 20-in. vitrified sanitary sewer with manholes in Wheeler Ave. and other streets. J. Kemper, City Engr.

N. J., New Brunswick—City plans storm-water sewers in Commercial Ave., not New Brunswick, N. Y., as stated in our Sept. 7 issue.

N. J., Pitman—Borough Council receiving bids Sept. 18 for sewer system and disposal works. J. E. Peterson, Borough Clk. Remington & Vosburg, Camden, Engr. Noted Aug. 10.

N. J., Rahway—City plans sewers in West Hazelwood and Maple Ave. F. Marsh, City Engr.

Penn., Allentown—City plans sewage-disposal plant. About $50,000.

Penn., Dunbar—City voted bonds for sewer system.

Penn., McKeesport—City making plans for storm and sanitary sewers in 9th and 11th Wards and Hartman St., about $40,000 and $12,000 respectively. M. Smith, People's Bank Bldg., Engr.

Penn., Philadelphia—Dept. Pub. Wks. received bids for intercepting sewer along Frankford Creek from Ryan & Reilly Co., 1420 South Penn Sq., $26,600; E. Pascuzzi, Lincoln Bldg., $27,900; R. Lombardi, Lincoln Bldg., $32,000.

Penn., Warren—City made plans for trunk-line sanitary sewer and disposal plant. Alson Rogers, Borough Engr.

Va., Roanoke—City receiving bids Sept. 21 for sewers in Rorer Ave. G. H. Tucker, City Clk. F. L. Gibboney, City Engr.

W. Va., Wellsburg—City voted $85,000 bonds for sewers.

S. C., Beaufort—City voted $100,000 bonds for sewer and water systems.

S. C., Greenville—City votes Sept. 26 on $25,000 bonds for sewers.

Ga., Cave Springs—City voted $20,000 bonds for sewer system and water-works. Noted Aug. 10.

Ga., Dalton—City plans to extend sewer system. W. N. Carroll, City Clk.

Ga., Manchester—City election Sept. 18 to vote on $9,000 sewer bonds. W. M. Moore, Mayor. Noted July 13.

Fla., Arcadia—City voted $21,000 bonds to extend sewer system. Cravens & Kimmel, Parker Bldg., Arcadia, Engr.

Fla., Daytona—See item under "Streets and Roads."

Miss., Crystal Springs—City soon votes on bonds for sanitary sewer system. X. A. Kramer, Magnolis, Consult. Engr.

Ohio, Canton—City plans sewers in Dartmouth Ave., 10th and 11th St. C. A. Stolberg, Mayor.

Ohio, Kent—City sold $60,000 bonds for sanitary sewers. F. Bechtle, City Clk. Noted Aug. 17.

Ohio, Lorain—City receiving bids about Oct. 1 for sanitary sewers in Waverly Pl., Oberlin Ave. and West 22d St. A. J. Horn, Dir. Pub. Ser. C. M. Osborne, City Engr. Noted Sept. 7.

Ohio, Marion—City plans sewers in Spencer St.

Ohio, Marion—City plans storm and sanitary sewers in Mound St. A. J. Sautter, Mayor.

Ohio, Newburg Heights—(Cleveland post office)—Town receiving bids Sept. 26 for purchase of $29,853 bonds for sewers and water mains in East 49th and East 42d St. J. A. Fitzgerald, Clk.

Ohio, Shaker Heights—(Cleveland post office)—City receiving bids Sept. 19 for storm and sanitary sewers. C. L. Palmer, First National Bank Bldg., Cleveland, Clk. Noted July 27.

Ohio, Springfield—City plans sanitary sewer in Sycamore St. M. J. Bahen, City Engr.

Mich., Alma—See item under "Water-Works."

Ill., Forrest—City plans sewers. About $5,646. A. F. Maltby, Chicago, Consult. Engr.

Ill., Kankakee—Bradley & Kankakee Sanitary Dist. making plans for sanitary and storm water sewer, about $175,000, in Kankakee and Bradley. D. R. Gregg, City Hall, Engr.

Ill., Niles Center—(Official)—City receiving bids Sept. 19 for storm and sanitary sewers. About $55,000. H. L. Emerson, Chamber of Commerce Bldg., City Engr. Noted Aug. 31.

Ill., Oak Park—City receiving bids about Sept. 25 for 3 mi. 9- to 20-in. vitrified tile sewers in northwest section. W. F. Sargent, City Engr.

Ill., Oak Park—City making plans for pipe sewer portion Austin Blvd. W. F. Sargent, City Engr.

Wis., Reedsburg—City plans sewer system in Central Sewer Dist. W. Dierken, City Clk.

Iowa, Griswold—City receiving bids Sept. 21 for sewers. C. E. Woodward, City Clk. J. H. Mayne, Council Bluffs, Engr.

Minn., Dawson—City plans election to vote on $25,000 sewer bonds.

Minn., Minneapolis—City plans sewer system in West Harriet Dist. About $100,000. F. W. Cappelin, City Engr.

Minn., St. Paul—City plans St. Anthony Hill sewer system. About $797,057. O. Claussen, City Engr.

Minn., Wadena—City sold $30,000 bonds for sewer improvements.

Minn., Windom—City votes Sept. 25 on $15,000 bonds for storm sewers.

Sewers (Continued)

Kan., Garden City—(Official)—City receiving bids Sept. 28 for sanitary sewer system. About $12,800. J. F. Crocker, City Clk. Noted Aug. 10.

N. D., Fargo—City plans improving sewers. About $300,000. F. L. Anders, City Engr.

Mo., Albany—City making plans for sewers, about $25,000. E. T. Archer & Co., 512-14 New England Bldg., Kansas City, Engr.

Mo., Hamilton—City soon votes on $30,000 bonds for sewer system. E. T. Archer & Co., 512-14 New England Bldg., Kansas City, Mo., Arch. Noted July 20.

Tex., Austin—City plans to spend $16,755 for sewer extensions. M. C. Welborn, City Engr.

Tex., Celina—City plans to improve sewage-disposal plant. W. E. Seitz, Mayor.

Tex., Gainesville—City making plans for sewage-treatment plant. N. Werenskiold, Dallas, Engr. Noted May 18.

Tex., Garland—See item under "Water-Works."

Tex., Jacksonville—City plans sewage plant.

Tex., Memphis—City making plans for addition to sewage-disposal plant. H. E. Elrod, Dallas, Engr.

Tex., Wharton—City retained J. A. Morris, Wharton, to make plans for sewage-treatment plant. Noted May 11.

Okla., Kusa—City plans election to vote on sewer bonds.

Okla., Norman—City voted $7,000 sewer bonds. M. Wise, City Clk. Noted Aug. 31.

Idaho, Nezperce—City plans sewer system.

Ariz., Clifton—City plans sewer system. A. J. Kerr, City Engr.

Ariz., Globe—City making plans for sewer system, about $240,000.

Wash., North Yakima—City votes in November on $290,000 bonds for sewers. N. R. Gilman, Engr.

Calif., Los Angeles—(Official)—City receiving bids about Oct. 15 for sewers in Florence Ave. About $100,000. H. Hamlin, City Engr. Noted Aug. 24.

Calif., Los Angeles—City votes in January on $1,500,000 bonds for West Jefferson St. storm drain, and $750,000 for Sacatella Dist. storm drain. Homer Hamlin, City Engr. Noted Feb. 24.

Calif., Seal Beach—City making plans for sewage system. Ilmstead & Gillelen, 1011 Hollingsworth Bldg., Los Angeles, Engr.

Que., St. Lambert—City soon receives bids for trunk sewers in St. James St., about $17,000. H. A. Gibeau, Engr.

Ont., Aurora—Council retained James, Loudon & Hertberg, Ltd., 1005 Excelsior Life Bldg., Toronto, to make plans for sewer system and purification works.

Ont., North Bay—City plans sewer in Ferguson St. H. J. McAuslan, Engr.

Ont., Ottawa—Council plans sewer in Booth St., about $5,700. A. F. Macallum, Comr. Wks.

Ont., Peterboro—City plans sewage disposal plant on McKellar St. R. H. Parsons, City Engr.

Ont., St. Marys—Council plans sewage system, about $15,000. T. M. Clark, Clk.

Bids In and Contracts Awarded

Conn., Bridgeport—(Official)—City let contract sewers in Railroad and Bostwick Ave. to T. J. PARDY CONSTRUCTION CO., 15 Fairfield Ave., Bridgeport, $223,088. Noted Aug. 24.

Conn., Wallingford—City let contract sewer in Prince St. to E. F. KAVANAUGH, Wallingford.

Conn., West Haven—City let contract sewers in Ward Pl. and Marion St. to PALMER & LYNCH.

N. Y., Fulton—F. Massaro, Fulton, $30,349, submitted lowest bid for storm water sewer. G. C Hill, City Engr. Noted Aug. 10.

N. Y., New York—(Manhattan)—(Official)—M. M. Marks, Borough Pres., received low bids for improving sewer at Dyckman St. and Hudson River, including building of submerged outlet and screening chamber complete from Harby, Abrons & Melius, 30 E. 42d St., Manhattan, about $77,000; Joseph Kelly, about $100,200; Thomas Dwyer, $106,750. Noted Sept. 7.

N. Y., Oleans—City let contract outlet sewer in West State St. to FURE & FOTE, Olean. About $12,000. Noted Sept. 7.

S. C., Greenville—City let contract 15,000 ft. sanitary sewer to SLATTERY & HENRY, Greenville, sewage-disposal plant to SANITARY ENGINEERING CO., Charlotte, N. C.

Fla., Pensacola—City let contract sewer to C. A. BORN, Pensacola.

Ind., Centerville—City let contract trunk, sanitary and storm sewer in National Rd. to J. DUKE, Richmond, $4,441. Noted Aug. 31.

Ind., Newpoint—City let contract storm sewer to M. HUBER.

Ill., Lincoln—City let contract sewer in North McLean St. to RHOADES & WARFIELD. Noted Apr. 20.

Ill., Winnetka—C. T. Bartlett & Co., Evanston, $60,533 lowest bidder for Cherry St. storm water sewer system.

Wis., Manitowoc—City rejected bids for storm sewers in Huron St. Work to be done by day labor. L. K. Pitz, City Engr. Noted Aug. 24.

Iowa, Decorah—(Official)—City let contract sewers in various streets to MOORE SIEG CONSTRUCTION CO., Waterloo, $4,380. Noted Aug. 31.

Iowa, Hampton—City let contract sewage-disposal plant to W. G. FRASER, St. Paul, $23,900.

Minn., Madison—(Official)—City let contract storm and sanitary sewers and treatment plant to TANNER BROS., Detroit Bldg., St. Paul, $51,900. Noted Aug. 17.

Neb., Pender—City let contract sewers and drainage system to P. N. KRUSE, Spencer, $20,500. Noted May 25.

Tex., Houston—City let contract sewer in Montrose Blvd. to HOUSTON CONSTRUCTION CO., Houston, $9,496.

Tex., Wills Point—City let contract sewer system and disposal plant to DALTON & CAMPBELL, Dallas, $18,000. Noted Mar. 9.

Ore., Hubbard—City let contract sewer system to A. J. WELTON, Northwestern Bank Bldg., $4,655. Noted July 20.

Calif., Berkeley—City let contract sewer on Hopkins St. to CHAMBERS & HEAFEY, Bacon Bldg., Oakland.

Ont., Brampton—Council let contract sewers to J. H. McKNIGHT CONSTRUCTION CO., LTD., Toronto. About $11,000.

Ont., Burlington—City let contracts sewer system and disposal plant to DOMINION SEWER PIPE CO., Hamilton, and TORONTO SEWER PIPE CO., for pipe; CANADIAN ENGINEERING CO., Hamilton, pump house and disposal plant; McLEAN & JOHNSON BROS., laying pipe.

Ont., Hamilton—City let contract sewer in Mountwood Ave. to E. R. GRAY and to J. J. ARMSTRONG & SONS for sewer in Gore St.

Ont., North Bay—Council let contract sewers to S. VERALDI, $7,133.

Ont., Welland—City Council let contract sewers to SOMERVILLE & DILWORTH, Welland. Noted May 18.

GARBAGE

Proposed Work

N. J., East Orange—City Council plans garbage incinerator plant. W. D. Willigerod, City Engr.

N. J., Newark—Federation of Local Impvt. Assoc. plans garbage disposal plant. M. R. Sherrard, City Engr.

Ohio, Cleveland—City votes in April on $750,000 bonds for improving garbage collection system. R. Hoffman, City Engr.

Ohio, Hamilton—City will issue $25,000 bonds for enlarging garbage disposal plant. Frank E. Weaver, City Engr.

Bids In and Contracts Awarded

Ohio, Dayton—City let contract concrete work at garbage disposal plant to W. GABLER, about $720. Noted Sept. 7.

Tex., Corsicana—City let contract garbage distructor plant to SUPERIOR FURNACE CONSTRUCTION CO. G. A. Duren, City Engr.

STREETS AND ROADS

Proposed Work

Maine, Augusta—State Highway Comn. plans highway between New Brunswick and Lewiston.

N. H., Lyme Center—Town plans road improvements.

Mass., Worcester—City plans to widen Chandler St., about $250,000. F. A. McClure, City Engr.

R. I., Pawtucket—City plans to pave Lowell St., about $8,000. J. A. Carpenter, City Engr.

Conn., Meriden—(Official)—Board Pub. Wks. receiving bids Sept. 19 for paving Veteran St., rein.-con. (See adv.)

N. Y., Canandaigua—Ontario County petitioned to improve 8½ mi. road in Gorham and Seneca. Address County Clk., Canandaigua.

N. Y., New York—(Official)—(Brooklyn)—L. H. Pounds, Borough Pres., Borough Hall, receiving bids Sept. 21 for paving portion Smith and 88th St.

N. Y., New York—(Official)—(Richmond)—C. D. Van Name, Borough Pres., Borough Hall, St. George, receiving bids Sept. 20 for repaving portion Westervelt Ave.

N. Y., New York—(Official)—(Richmond)—C. D. Van Name, Borough Pres., Borough Hall, St. George, receiving bids Sept. 21 for repaving portion Willow Brook and Port Richmond Rd.

N. Y., New York—(Official)—(Richmond)—C. D. Van Name, Borough Pres., Borough Hall, St. George, receiving bids Sept. 22 for repaving portion Orient Ave., Louis and Prospect St.

N. Y., Rochester—City plans to pave Pardee St., brick. F. T. Elwod, City Engr.

N. J., Belleville—Board Comrs. plan to extend Van Houten Pl. F. T. Shephard, City Engr.

N. J., Belmar—(Official)—Council receiving bids Sept. 26 for improving portion F St., concrete, about 15,150 sq.yd. C. O. Hudnut, Borough Clk. C. Potts, 30 Church St., New York, Engr. (See adv.)

N. J., Chatham—Borough Council passed ordinance to curb and gutter portion North Hillside Ave.

N. J., Florence—Town plans to improve sid walks, about $50,000.

N. J., Newark—City plans to pave Porter a Stengel Ave., bitulithic. M. R. Sherrard, Ci Engr.

N. J., Passaic—City soon receives bids for pa ing portion Bergen St. C. R. Wise, City Engr

N. J., Ridgewood—Bd. Comrs. receiving bi Sept. 19 for macadamizing portion Lenox Av also curbs, gutters and concrete sidewalks o Clermont Rd.

N. J., South Amboy—Bd. Freeholders, Middlesex County, New Brunswick, soon lets contra for paving Washington Ave. and Main St., asphalt or warrenite.

N. J., Summit—Council plans to improve Summit Ave., amiesite. R. C. Wheeler, City Engr

N. J., West New York—City plans to repave Bergenline Ave. O. L. Aufder Heide, Mayor.

Penn., Connellsville—Council authorized purchase of 500,000 paving blocks to pave Arch and 9th St. C. F. Hirst, City Engr.

Penn., Ligonier—City making plans paving portion Main St. brick, about $11,000. W. G. Muse, Court House, Greensburg, Engr.

Penn., Natrona—City election, Dec. 1, to vote on $30,000 bonds for paving in Harrison Township. C. E. Braun, Clk. Bd. Trustees. C. E. Miller, Jenkins Arcade, Pittsburgh, Engr.

Penn., Newton—Council plans to pave Liberty and Sterling St. and Chancellor and Lincoln Ave., asphalt. J. Pugh, Chn. St. Com.

Penn., Pittsburgh—Allegheny County receiving bids Sept. 21 for improving Banksville Rd., Sect. "O." J. P. Moore, Pittsburgh, County Contr.

Penn., Pittsburgh—Pennsylvania Lines West of Pittsburgh plan boulevard from Osborne through Sewickley, Edgeworth, Shields and Leetsdale, about 5 mi. T. Rodd, Pittsburgh, Ch. Engr.

Penn., Spring City—City plans to spend about $20,000 for paving.

Penn., Wilkes-Barre—City plans to pave portions Willow, Lawrence, Oak and Meade St., asphalt. B. K. Finch, City Engr.

Md., Baltimore—Bd. Awards receiving bids Sept. 20 for grading and paving 25 alleys, concrete. R. M. Cooksey, City Engr.

Md., Baltimore—(Official)—State Rd. Comn., 601 Garrett Bldg., receiving bids Sept. 19 for section State Highway in Charles County, Contract No. Ch.-12. F. H. Zouck, Chn. (See adv.)

Md., Baltimore—(Official)—State Rds. Comn., 601 Garrett Bldg., receiving bids Sept. 19 for repairing bridge over Patapsco River along Reistertown Rd., Baltimore and Carroll Counties, Contract No. 0269; sections concrete shoulder along Baltimore and Washington Blvd., Baltimore and Howard Counties, Contract No. W. B. S; 1 section road between Church Creek and Taylors Island, Dorchester County, Contract D-19; repairing bridge over Conocheague River along State Highway, Washington County, Contract No. 0215-Br. F. H. Zouck, Chn. (See adv.)

Va., Norfolk—City plans to pave and repair Church, Queen, North and other streets, asphalt and wood block, about $21,000. W. H. Taylor, City Engr.

Va., Richmond—City soon receives bids for paving portion 14th St. C. E. Bolling, City Engr. Noted Aug. 3.

Va., Roanoke—City receiving bids Sept. 21 for paving Commerce St., macadam, grading 9th St. and macadamizing 2d St. F. L. Gibboney, City Engr.

W. Va., Broad Oaks—(Clarksburg post office)—Town plans election to vote on $18,000 road bonds.

W. Va., Madison—Boone County election Sept. 29 to vote on $450,000 road bonds. Address County Clk., Madison.

W. Va., Romney—Hampshire County, Capon Dist., and Hardy County, Capon Dist., voted bonds for road work. Address County Clk., Romney.

W. Va., Summersville—Nicholas County, Beaver Dist., defeated $250,000 road bonds. Noted Aug. 10.

W. Va., Welch—McDowell County receiving bids Sept. 16 for 40.8 mi. roads and bridges in Sandy River Dist. W. W. Whyte, Welch, Clk. Noted Dec. 30.

N. C., Morganton—Burke County election Sept. 30 to vote on bonds for road work in Lovelady Township. Address County Clk., Morganton.

N. C., North Wilkesboro—City plans $40,000 bond issue for paving.

N. C., Smithfield—Johnston County, Boon Hill Township, voted $40,000 road bonds. Address County Clk., Smithfield.

S. C., Chester—City plans election to vote on street paving bonds. J. Hamilton, City Engr.

Ga., Savannah—Chatham County to sell $100,000 road bonds Sept. 16. L. L. Hurburt, Savannah, Clk. County Court.

Fla., Arcadia—City voted $90,000 street-improvement bonds. Noted Apr. 20.

Fla., Daytona—City election Oct. 10 to vote on $160,000 street improvement and sewer bonds.

Fla., Jacksonville—City receiving bids Oct. 2 for 1,974 sq.yd. brick pavement and 3,849 sq.yd. concrete pavement. L. D. Smoot, Comr. Pub. Wks.

Streets and Roads (Continued)

Fla., Macclenny—Baker County plans election to vote on $60,000 road bonds. Address County Clk., Macclenny.

Fla., Ormond—City voted bonds for boulevard.

Ala., Andalusia—Covington County voted $100,000 road bonds. W. F. Simmons, Andalusia, Pres. Bd. Revenue.

Ala., Double Springs—J. S. Curtis, Judge Probate, receiving bids Sept. 23 for road work.

Ala., Vernon—Lamar County Highway Comrs. soon receive bids for 15 mi. highway to complete route of proposed Jackson Highway through county. Address County Clk., Vernon.

Miss., De Kalb—Kemper County plans to let contract for about 52 mi. road in October. Snowden & Hauser, Columbus, Engr. Noted Sept. 7.

Miss., Gloster—City plans election to vote on $100,000 road bonds.

Miss., Winona—City plans election to vote on $100,000 road bonds.

La., Lake Charles—City plans to pave portions South Division and Reid St., brick.

La., Lake Charles—E. F. Gayle, Pres. School Bd., receiving bids Sept. 28 for paving Boulevard St., gravel.

La., Monroe—(Official)—Quachita Parish receives bids about Oct. 1 for road and bridge work, about $415,000. J. W. Billingsley, Interstate Bldg., New Orleans, Consult. Engr. Noted Aug. 24.

La., New Orleans—City receiving bids Sept. 29 for paving St. Bernard Ave., South Broad, North Villere, Thalia, Julia and Poydras St., about 61,250 sq.yd., brick, concrete, asphalt, bitulithic or wood block. W. J. Hardee, City Engr.

La., New Orleans—City receiving bids Sept. 26 for paving portions Burgundy, Dauphin, St. Louis, Conti, Toulouse, North Peters, Blenville, Orleans and St. Peters St., asphalt, bitulithic, concrete, brick or wood block. W. J. Hardee, City Engr.

Tenn., Brownsville—City voted $25,000 bonds for street work. N. B. Keathley, Mayor. Noted July 6.

Tenn., Chattanooga—Mayor authorized to issue $4,752 bonds for repaving Dist. No. 109. R. Hooke, City Engr.

Ky., Lexington—Fayette County soon lets contract for road work. Address County Clk., Lexington.

Ky., Paducah—(Official)—Comr. Pub. Wks., City Hall, receiving bids Sept. 21 for about 27,500 sq.yd. paving, asphalt, bitulithic, brick or concrete. L. A. Washington, Comr. Pub. Wks. (See adv.)

Ohio, Bedford—Town receiving bids Oct. 12 for purchase of $14,000 bonds for improving Wood Row Ave. H. T. Hubbell, Clk. C. W. Courtney, 1156 Leader News Bldg., Cleveland, Engr. Noted Aug. 31.

Ohio, Bellefontaine—City voted $20,000 bonds for improving Stanton Ave. C. A. Inskeep, City Engr.

Ohio, Bowling Green—City plans to pave portion Ridge St., macadam, concrete or asphalt.

Ohio, Canton—City soon receives bids for paving 16 streets, about $300,000. W. E. Sarver, City Engr.

Ohio, Cincinnati—City plans to pave Terry St., macadam, $9,724. F. Krug, City Engr.

Ohio, Cincinnati—Hamilton County plans to pave North Bend Rd., concrete, about $65,000; also Springfield and Hamilton Pikes, brick. W. Boeh, Cincinnati, County Surv.

Ohio, Cincinnati—Hamilton County making plans for improving Hayes Ave., Green Township. Address County Clk., Cincinnati.

Ohio, Cleveland—City plans election in November to vote on $3,000,000 paving bonds. Robert Hoffman, City Engr. Noted Aug. 31.

Ohio, Columbus—Franklin County receiving bids Sept. 21 for draining and macadamizing Gerard and Indiaola Rd., Clinton Township, and Fairview Ave. Rd., Franklin Township. Address J. Scott, Columbus, County Clk.

Ohio, Cuyahoga Falls—Village plans sidewalks and curbing on High St. E. D. Barstow, Engr.

Ohio, Kent—City making plans for paving portions Park, Prospect, Columbus and Franklin Ave., asphalt or brick. E. S. Royer, Engr.

Ohio, Maumee—City receiving bids Sept. 18 for purchase of $45,573 street improvement bonds.

Ohio, Niles—Council passed ordinance to issue $4,600 paving bonds. H. W. Turner, City Engr.

Ohio, Niles—Council passed ordinance to improve portion Warren Ave. H. W. Turner, City Engr.

Ohio, Norwood—See item under "Miscellaneous."

Ohio, Ottawa—(Official)—Council receiving bids Sept. 26 for draining and macadamizing 2nd St., about $8,948. J. S. Cartwright, City Engr.

Ohio, Ravenna—City receives bids about Oct. 1 for paving portion Lake Ave. W. H. Linton, City Engr. Noted Aug. 31.

Ohio, Shaker Heights—(Cleveland post office)—See item under "Water Works."

Ohio, Sebring—Council passed ordinance to issue $13,600 street-improvement bonds.

Ohio, Sidney—(Official)—City plans improving streets.

Ohio, Xenia—City soon lets contract for paving East Main and Rogers St. and several other streets. J. P. Shumaker, City Engr. Noted Aug. 24.

Ind., Brazil—Council passed resolution for improving portion Kruzan St. F. Wilson, City Engr.

Ind., Brazil—Clay and Vigo Counties receiving bids Oct. 25 for county line stone and gravel road. W. O. Graeser, Brazil, Audr. Clay County.

Ind., Evansville—City plans to improve portion Pennsylvania St. D. J. Saunders, City Engr.

Ind., Fowler—Benton County receiving bids Oct. 2 for 2 roads in Gilboa Township. W. Makey, Fowler, Audr.

Ind., Gary—City receiving bids Sept. 25 for paving portion alley 1, also construction sewer in same, about $11,340. W. J. Fulton, City Engr.

Ind., Goshen—Elkhart County receiving bids Oct. 3 for road in Concord Township. A. R. Bemenderfer, Goshen, Audr.

Ind., Jeffersonville—Clark County receiving bids Oct. 2 for crushed limestone road in Jeffersonville Township. G. W. Stoner, Jeffersonville, Audr.

Ind., Winchester—(Official)—Council receiving bids Sept. 20 for improving first alley north of Georgia St. N. R. Chenoweth, City Clk.

Mich., Casnovia—Muskegon County, Casnovia Township, voted $50,000 road bonds. Address County Clk., Casnovia.

Mich., East Lansing—Taxpayers voted $20,000 bonds for cement pavement from Harrison to M. A. C. Ave.

Mich., Marshall—Citizens voted $21,800 paving bonds. Noted May 11.

Mich., Ontonagon—Ontonagon County election in November to vote on $195,000 road bonds. Address County Clk., Ontonagon.

Mich., Port Huron—City plans to pave portions 10th and Suffern St. and 10th Ave. E. Whitmore, City Engr.

Ill., Gillespie—Town plans to pave Main St. in business district, brick.

Ill., Lake Forest—Board Local Impvts. plans to pave 13,700 sq.yd. of Woodland St., concrete, about $34,157. J. Anderson, Jr., City Engr.

Ill., Lake Forest—Board Local Impvts. plans to resurface about 1¾ mi. Green Bay Rd. J. Anderson, Jr., Engr.

Ill., Lawrenceville—City plans to pave about 10 blocks, brick and concrete. R. J. Benefiel, Court House, Engr.

Ill., Lawrenceville—Lawrence County soon receives bids for road work in Lawrenceville Township, about $13,000. R. J. Benefiel, Lawrenceville, Supt. Highways.

Ill., Oak Park—City receiving bids about Oct. 1 for paving portions Fillmore, Lexington and Congress St. and Ridgeland Ave., asphaltic concrete and brick. W. F. Sargent, City Engr.

Ill., Pekin—City making plans for 11,290 yd. brick paving on South 2nd St. B. F. Smith, Engr.

Ill., Peoria—City making plans for paving Washington, Maple, North Main and Greenleaf St. and Knoxville Ave., brick and gravel. L. D. Jeffries, City Engr.

Ill., Peoria—City making plans for 19,525 yd. concrete pavement on portion Howett St., about $36,990. L. D. Jeffries, City Engr.

Ill., Petersburg—City receiving bids about Sept. 23 for paving 6 districts, brick or concrete. Goodell & Millard, 117½ Washington St., Beardstown, Engr.

Ill., Pontiac—City plans to pave portions Locust and Elmwood St., brick, about $23,000. J. C. Wade, City Engr.

Ill., Springfield—State plans to spend about $2,250,000 for road work during 1917. W. W. Marr, Springfield, Ch. Engr. State Highway Dept.

Ill., Virginia—City making plans for 3,306 sq.yd. brick paving, including curbing and guttering, about $9,000. Goodell & Millard, 117½ Washington St., Beardstown, Engr.

Wis., Mellen—City receiving bids Sept. 22 for paving Bennett St., rein.-con.

Iowa, Grundy Center—Board Pub. Wks. plans 40 blocks paving, about $75,000.

Minn., Aitkin—Aiken County received no bids for 2½ mi. paving on State Rd. No. 2.

Minn., Minneapolis—Council petitioned to pave Cedar Ave., West 40th and other streets. F. W. Cappelin, City Engr.

Minn., Minneapolis—City plans to pave Calhoun Blvd. F. W. Cappelin, City Engr.

Minn., St. Paul—City rejected bids for grading Madison St. New bids. Oscar Claussen, City Engr.

Minn., St. Paul—City plans sidewalks on portions Goodrich, Park, Hague, Ashland, Selby and Berkeley Ave. and Woodridge, Michigan, Manomin and Jessie St. Oscar Claussen, City Engr.

Kan., Leavenworth—City plans to curb and pave portion Columbia Ave. H. A. Perkins, City Engr.

Kan., Wichita—City receiving bids about Oct. 1 for asphalt paving, (2) jobs, about $12,000. B. Wells, City Engr.

Neb., Omaha—City plans to repave portion 1st St. J. A. Bruce, City Engr.

Mont., Anaconda—Council adopted resolution to improve Oak, Cherry, Ceder and Chestnut St., bitulithic, $32,000, or asphalt, $28,000. W. B. Vestal, City Engr.

Mont., Butte—City plans new street between Oklahoma and Ohio Ave. J. J. Armstrong, City Engr.

Mo., Adrian—(Official)—Bates County did not vote $6,000 road bonds as stated in issue of Aug. 24.

Mo., Hartville—Wright County voted $40,000 road bonds. Address County Clk., Hartville.

Mo., Joplin—City plans to pave North Main St. and Jackard Pl., concrete. J. J. McAfee, City Engr.

Mo., Marble Hill—Bolinger County plans election to vote on $160,000 road bonds. Address County Clk., Marble Hill.

Mo., Tuscumbia—Miller County plans election to vote on $1,000,000 road bonds. Address County Clk., Tuscumbia.

Mo., Webb City—City plans to improve portion John St. L. E. Briggs, City Engr.

Ark., Hope—H. R. Carter, State Highway Engr., Little Rock, making surveys for road from Hope to Washington and from Hope to Fulton.

Ark., Marion—Crittendon County made plans for about 40 mi. road, about $177,000. Address County Clk., Marion.

Ark., Newport—Jackson County plans macadam highway from Newport to Eight Mile and from Newport to Beedville, 42 mi., about $250,000. H. R. Carter, Little Rock, State Highway Engr.

Ark., Osceola—Mississippi County plans 14 mi. concrete road from Blytheville to Gosnell, about $125,000. H. R. Carter, Little Rock, State Highway Engr.

Ark., Osceola—City soon receives bids for paving in Dist. No. 1. Pride & Farley, Osceola, Engr.

Ark., Pocohontas—Randolph County made plans for road from Pocahontas through Maynard to Missouri state line, about $34,000. Address County Clk., Pocohontas.

Ark., Pulaski Heights—(Little Rock post office)—H. F. Auten interested in project to form improvement district to pave streets, about $52,000.

Tex., Amarillo—Council plans to pave 50 additional blocks. M. H. Hardin, City Engr.

Tex., El Paso—J. Gladding, City Engr., submitted estimate of cost of paving portion Myrtle St., $91,337; Dallas St., $30,869; Chihuahua St., $8,169. G. Espy, City Engr.

Tex., Fredericksburg—Gillespie County plans election in November to vote on tax for road work. Address County Clk., Fredericksburg. Noted Mar. 2.

Tex., Houston Heights—See item under "Miscellaneous."

Tex., Palestine—City plans to improve public square and also plans to pave residential section, about $25,000.

Tex., Redwater—Property owners voted $25,000 road bonds.

Okla., Bartlesville—Washington County plans election to vote on road bonds. Address County Clk., Bartlesville.

Okla., Clinton—City plans to pave about 15 blocks in business district, about $80,000. Benham Engineering Co., Oklahoma, Engr.

Okla., Okmulgee—Okmulgee County plans election to vote on $1,000,000 bonds for road work. Address County Clk., Okmulgee.

Okla., Sand Springs—City plans to spend about $100,000 for concrete paving.

Idaho, Challis—Custer County election Nov. 7 to vote on $100,000 highway bonds. Address County Clk., Challis. Noted July 27.

Ariz., Douglas—Council plans to pave, curb, gutter and build sidewalks on various streets.

Wash., Centralia—City Comn. plans to pave Chehalis Ave. L. M. Lee, City Clk.

Wash., Chehalis—Lewis County postponed election reported to be held in November to vote on $500,000 road bonds indefinitely. Address County Clk., Chehalis. Noted June 29.

Wash., Davenport—Council plans to spend $11,154 for paving various streets, macadam. H. L. Paige, City Clk.

Wash., Everett—City soon lets contract for improving Wetmore Ave., about $19,645. H. Munn, City Engr.

Wash., Mansfield—City soon lets contract for improving Main St. and 1st and 2nd Ave., about $10,700.

Wash., Olympia—State Legislature will be asked to appropriate $320,000 for completing improvement of Pacific Highway between Vancouver and Tacoma. J. Allen, Olympia, State Highway Comr.

Wash., Seattle—Council authorized new street extending from intersection of 5th Ave., N., and Alaho St., S., to Taylor Ave. and Prospect St., about $53,000. A. H. Dimock, City Engr.

Wash., Seattle—Bd. Pub. Wks. plans to grade and curb portion East 18th St., about $38,966; pave Rainier Ave., brick, about $16,180. A. H. Dimock, City Engr.

Wash., Seattle—Bd. Pub. Wks. approved plans for paving portion 11th Ave., N. E., wood block, about $36,000.

Streets and Roads (Continued)

Ore., McMinnville—City plans to pave portion D St.

Ore., Portland—City made plans for paving portion East 42nd St. P. H. Dater, City Engr.

Calif., East San Pedro—City plans macadam road between 4th St., Terminal Island, and Fisherman's Harbor, about $29,000. Address A. Jubb, East San Pedro, Harbor Engr.

Calif., Fowler—(Official)—City receiving bids Sept. 20 for paving 8th St., concrete and asphalt, about $15,000. C. P. Jensen, City Engr. Noted Aug. 24.

Calif., Fresno—Fresno County election Oct. 24 to vote on $3,600,000 road bonds. Address County Clk., Fresno.

Calif., Hillsborough—City receiving bids Sept. 19 for improving Barriolhet Ave. J. A. Hoey, 440 Holbrook Bldg., San Francisco, City Clk.

Calif., Los Angeles—Los Angeles County receiving bids Sept. 25 for improving Alameda St., Rd. Dist. No. 4. H. J. Lelande, Los Angeles, Clk.

Calif., Santa Paula—(Official)—City receives bids in about 90 days for paving various streets, about $80,000. E. M. Lynch, Glendale, Engr. Noted Aug. 24.

Calif., Seal Beach—City plans to pave all streets. S. H. Finley, City Engr.

Calif., Tropico—City soon lets contract for paving portion Hill St., macadam. M. R. Coleman, City Clk.

Calif., Woodland—Council passed ordinance to pave portions 3d and Elm St.

Bids In and Contracts Awarded

Mass., Boston—(West Roxbury)—Dept. Pub. Wks. let contract paving portion Washington St. to J. DOHERTY, 133 Calumet St., Roxbury.

Mass., Boston—City let contract paving various streets to B. E. GRANT, 99 West Cedar St., $362,265. Noted Sept. 7.

Mass., Boston — (Arlington-Lexington) — State Highway Comn. received low bid section highway in Arlington and Lexington from J. A. Gaffey, Medford, $20,175.

Mass., Boston—(Upham Corners)—State Highway Comn. let contract section highway in Upham Corners to C. E. Horne, $17,545.

Mass., Spencer—City let contract macadamizing Wire Village Rd. to LANE CONSTRUCTION CO., Meriden, Conn., $7,200. Noted Mar. 30.

Mass., Uxbridge—State Highway Comn., Boston, received low bid section highway in Uxbridge from Luchini-Mazani Co., Milford, at $12,617.

R. I., Tiverton—Town let contract road work to L. H. CALLAN, Bristol, and G. E. SNELL, Tiverton.

Conn., Hartford—A. B. Cadwell, 45 Main St., New Britain, at $10,880, low bidder section gravel road Portland Township.

Conn., Hartford—State Highway Comn. let contracts road work to J. ARBORIO, 36 Ward St., New Haven, Bethany Rd., Beacon Falls Township, $8,000; F. A. WILCOX, Norwich, New London Turnpike, Montville Township, $8,319; MASCETTI & HOLLEY, 72 Main St., Torrington, Woodbury Township, $4,400.

N. Y., Hempstead—Comrs. Nassau County, Mineola, let contract improving portion Rockaway Rd. to STANDARD BITULITHIC CO., 50 Church St., New York, $1.80 per sq. yd.; Mill Neck Rd., E. M. UNDERHILL & SON, Glen Cove, $1.30 per sq.yd.; Union Ave., ANDREWS BROS., Mineola, $1.40 per sq. yd.

N. Y., New York—(Bronx)—(Official)—O. Daniels Co., Woolworth Bldg., Manhattan, low bidder completing contract executed by J. B. Malatesta Sept. 15, 1915, and assigned to Frank Palmer, Dec. 19, 1915, and declared abandoned on Aug. 21, 1916, for improving portion East 213th St., at $22,178; also same work in portion Dyre Ave., at $22,806.

N. Y., New York—(Bronx)—(Official)—W. F. Presley low bidder paving various streets: College Ave., $11,661; University Ave., $78,675; Southern Blvd., $16,170.

N. Y., New York—(Richmond)—(Official)—Contract improving portion Broadway let to UVALDE ASPHALT PAVING CO., 1 Broadway, Manhattan. Noted Aug. 31.

N. J., Bloomfield—City let contract improving Spring and Baldwin St. to R. DORIETY, 136 Ridge St., Newark, about $16,000. Noted Aug. 3.

N. J., Caldwell—Borough rejected bids for macadamizing Hatfield St. and Park Ave. Work to be done by day labor.

N. J., Glen Ridge—Osborne & Marcellus, West Orange, at $54,890, low bidder paving Ridgewood Ave., concrete.

N. J., Jersey City—(Official)—City received low bid improving St. Paul Ave. and Old Bergen Rd. from Van Keuren Construction Co., Newark. C. A. Van Keuren, City Engr. Noted Aug. 31.

N. J., Mt. Holley—(Official)—Burlington County received low bids improving portion Mile Hollow-Yardville Rd. from Newton Paving Co., Trenton, $37,061; H. Klockner, Hopewell, $38,549; C. R. Read & Co., Trenton, $42,567. Noted Aug. 10.

N. J., Newark—J. S. Geigers Sons, 80 Hartford St., Newark, at $42,643, low bidder repaving portion Roseville Ave. M. R. Sherrard, City Engr. Noted Aug. 31.

N. J., Paterson—Passaic County let contract improving portion Totowa Rd. to SOWERBUTT & HARROP, Paterson, $21,555. Noted Aug. 31.

N. J., Plainfield—(Official)—City let contract paving to HICKEY & HOUGHTON, INC., Somerville, Leland Ave., $5,258, Sumner Ave., $6,834, Kensington Ave., $7,466, Stelle Ave., $4,064. Noted Aug. 24.

N. J., Ridgefield Park—Bd. Comrs. let contract improving Grove St. to DE NAPOLI-TORIELLO CONSTRUCTION CO., Hackensack, $4,495.

N. J., Rutherford—Borough let contract improving Carlton Ave. to A. BORGHI, Woodridge, $9,053.

Penn., Allentown—City let contract paving portion Spruce St. to HERBER ASPHALT PAVING CO., Lentz Bldg. Noted Aug. 10.

Penn., Connellsville—City let contract paving 9th St. to J. I. DICK, Scottdale, about $10,000.

Penn., Dormont—City let contract improving Pinehurst, Hillsdale and Raleigh Ave. and Anderson Way to J. I. DICK, Scottdale.

Penn., Du Bois—City let contract paving Long St. to JOHNSON & KERNS, Du Bois, $9,152. Noted July 13.

Penn., Edwardsville—City let contract paving Roosevelt and Russell St. to J. BANKS CONSTRUCTION CO., Bennett Bldg., Wilkes-Barre, about $45,000 and $75,000 respectively. Noted July 6.

Penn., Harrisburg—City let contract grading Maclay St. and Hickory Alley to W. H. MURPHY & SONS.

Penn., Greensburg—City let contract paving and curbing portion Fulton St. to J. H. OFFUTT, $8,964. Noted July 20.

Penn., Greensburg—City let contract paving and curbing various streets to L. F. EDWARDS, $10,559.

Penn., Philadelphia—Dept. Pub. Wks. let contract paving portion Tioga St. to EASTERN PAVING CO., 1416 South Penn Sq., Philadelphia, $6,750.

Penn., Plains—(Walkes-Barre post office)—City let contract paving and curbing Miner and Helen St. to J. MORITZ, Plains.

Penn., Plymouth—Borough let contract paving Academy St. to E. QUINN, $4,500. Noted Aug. 31.

Penn., Turtle Creek—City let contract improving portion Railroad St. to R. H. CUNNINGHAM, about $4,500.

Penn., Williamsport—City let contract paving portion Arch St. to BUSCH & STEWART, Williamsport, $2.36 per yd.

Md., Princess Anne—Somerset County let contract road from Westover to Pocomoke to AMBLER-DAVIS CO., Philadelphia, $109,688.

Md., Rockville—(Official)—Montgomery County let contract portion State-Aid Highway upon or along Poolesville Rd. to G. B. MULLIN CO., 144 Kennedy St., N. W., Washington, D. C., about $50,000. Noted Aug. 3.

Va., Suffolk—City let contract surfacing portion Washington St. to McGUIRE CONSTRUCTION CO., Norfolk. Noted July 27.

W. Va., Charleston—(Official)—Kanawha County Court let contract Kanawha and James River Turnpike, portion of Midland Trail between St. Albans and Charleston, to CENTRAL ENGINEERING CO., Charleston, about $100,000.

W. Va., Clarksburg—City let contract paving West Pike St. to W. B. VIRGIE, Clarksburg, about $12,000. Noted Aug. 24.

N. C., North Wilkesboro—City let contract paving to HUDSON CONSTRUCTING CO., Atlanta, Ga. Noted Apr. 27.

N. C., Southport—Brunswick County let contract 9¾ mi. sand clay road in North West Township to D. A. BENNETT CO., Winnabow, $1,000 per mi.

N. C., Warrenton—(Official)—City let contract 6,000 sq. yd. paving to R. G. LASSITER CO., Oxford, $15,000. Noted Aug. 10.

Ala., Center—County let contract extending public road to NEWELL BROS., Birmingham. Noted Aug. 17.

Miss., Columbus—Lowndes County let contract road work to J. L. WELLS, $17,600.

Miss., Gulfport—City let contract paving 5½ mi. streets to J. B. McCRARY, Atlanta, about $35,000.

Miss., Lexington—Holmes County let contract 40 mi. gravel roads, including bridges and culverts, to INLAND CONSTRUCTION CO., Chandler, Okla., $144,000.

Miss., Meridian—City let contract paving streets to GOOD ROADS SURFACING CO., about $6,157.

Tenn., Greenville—City let contract 13,663 sq.y paving and 12,500 lin.ft. curb and gutter to MU NICIPAL PAVING CO., Nashville.

Ky., Covington—Kenton County let contract mi. pike road to Z. HEDGER, $22,000.

Ky., Henderson—Henderson County let contra ¾ mi. macadam road to E. MANION, Henderso about $24,000 available.

Ky., Louisville—City let contract paving to K A. BARKER, Lyons Ave., $37,000; J. A. CAHILL Bloom and McHenry St., $6,700, alleys, $5,600.

Ohio, Cleveland—City let contract paving Cla Ave. viaduct to RIELEY BROS., 348 Arcad $69,323.

Ohio, Cleveland—City let contract paving portion Longview Ave. to CLEVELAND-TRINIDAD ASPHALT PAVING CO., $17,427; Wyandotte Av ANDREWS ASPHALT PAVING CO., $5,470.

Ohio, Columbus—City let contract paving portion Tulane Rd. to A. W. BURNS & CO., Columbus, about $25,010.

Ohio, Columbus—City let contract paving portion Lehman St. to G. GIEGELE & SON, $4,15

Ohio, Columbus—Low bids received by State Highway Dept., Aug. 31, for road work were as follows: Coshocton County, 2.37 mi., Walhonding-Newark Rd., macadam, Lee, Griggs & Anderson, Millersburg, $8,518, P. M. Deetz, Millersburg, $8,743; Erie County, 4 mi. Columbus-Sandusky Rd., waterbound macadam, Heyman & Heyman, Bellevue, $37,000, Buckeye Engineering Co., Norwalk, $37,034; Highland County, 1.75 mi. West Union-Belfast Rd., waterbound-macadam, bridges and culverts, E. Bean, Highland, $7,303; Jackson County, 1.08 mi. Jackson-Ironton Rd., brick, bridges and culverts, Mahl & Mahl, Ironton, Contract No. 1, $25,892; Pickaway County, 5.1 mi. Circleville-Adelphis Rd., gravel, bridges and culverts, W. E. Juston, Circleville, $17,662, Harness Rennick, Williamsport, $18,362; Seneca County, 1.20 mi. Lima-Sandusky Rd., macadam and concrete, Sprout & Murphy, Kansas, $11,988, Souder & Peter, Fostoria, $12,499; Cuyahoga County, Cleveland-Sandusky Rd., Sec. "A," Elyria Construction Co., Elyria, $157,836, McHugh Bros., Cleveland, $164,780. Pace Bros., Cleveland, $157,402, Johnson Construction Co., Chicago, $159,077.

Ohio, Dennison—(Official)—City let contract improving portions Logan and 6th St. to SPRINGER & ROGERS, New Philadelphia, $16,851. Noted Aug. 17.

Ohio, Fairview—City let contract about 3 mi. sidewalks to C. G. FAY, 2087 West 91st St., Cleveland, $10,000.

Ohio, Findlay—City let contract resurfacing portion East Sandusky St. to J. H. HALL, $14,534. Noted Aug. 17.

Ohio, Findlay—City let contract improving Prospect Ave. and Larkin St. to JOHNSON CONSTRUCTION CO., 115 South Dearborn St., Chicago. Noted Apr. 27.

Ohio, Greenfield—City let contract improving 5th, 6th, Midway and Lafayette St. to RINGWALD SONS CO., Chillicothe. Noted July 27.

Ohio, Napoleon—City let contract paving and curbing to JOHNSON & RITZ, Maple St., $5,766, Dodd St., $6,690.

Ohio, New Concord—(Official)—No bids were received by village for paving College and Depot St. and Montgomery Blvd. W. C. Trace, Clk. Noted Aug. 31.

Ohio, New Philadelphia—City let contract paving portion East Front and East Ray St. to SPRINGER & ROGERS, New Philadelphia. Noted May 11.

Ohio, Norwalk—(Official)—City let contract paving Milan St. to G. E. SCOTT, Norwalk, $10,418. Noted Aug. 31.

Ohio, Salem—City let contract improving portion West Dry St. to BUHL & BAKER. Noted May 25.

Ohio, Sandusky—City let contract paving and curbing Boalt St. to M. J. CULLIN.

Ohio, Springfield—City let contract paving Lowry Ave. and Center St. to M. J. HANNON.

Ohio, Washington Court House—(Official)—City let contract paving Lewis and Fayette St. and Ogle and Delaware Ave. to G. H. HEFFNER & SON, Celina. Noted Aug. 24.

Ohio, Wooster—Bids received for paving Mt. Eaton and Lebanon Rd., (a) Mono brick, (b) waterbound macadam, as follows: Highway Construction Co., Elyria, (b) $42,255; Lee, Griggs & Anderson, Millersburg, (a) $63,809, (b) $46,927; J. C. Devine Co., Alliance, (a) $64,668, (b) $45,763.

Ohio, Youngstown—(Official)—City let contract paving portion Milton St. to V. OLSON CONSTRUCTION CO., Mahoning Bank Bldg., Youngstown, $9,823. Noted Aug. 31.

Ind., Angola—(Official)—No bids were received by county for road on Dekalb-Steuben County line. Noted Aug. 17.

Ind., Auburn—(Official)—County received no bids for gravel road in Franklin Township. Noted Aug. 24.

Ind., Brazil—(Official)—Clay County let contract roads in Posey Township to KEEGAN BROS., Brazil, $12,298; Harrison Township, T. N. CROUSE, Clay City, $13,945. Noted Aug. 31.

Streets and Roads (Continued)

Ind., Columbia—(Official)—County rejected bids for roads in various townships. J. A. McLaughlin, Columbia, Audr.

Ind., Corydon—(Official)—Harrison County received no bids for gravel or macadam road on Washington-Heth Township line. Noted Aug. 24.

Ind., Elwood—City let contract sidewalks on portion South A St. to FESLER & WISE, Frankton.

Ind., Ft. Wayne—Allen County let contract 1 mi. road to C. W. ELING, $4,785; 3 mi., A. H. FRY, $16,195; 2 mi. RIDER & WEBSTER, $9,538. Noted Aug. 3.

Ind., Fowler—(Official)—County let contract road Hickory Township to A. E. GRAY, Fowler, $12,900. Noted Aug. 24.

Ind., Jeffersonville—(Official)—County let contract road Utica Township to W. PASS, Sellersburg, $8,700. Noted Aug. 17.

Ind., Jeffersonville—(Official)—County let contract road in Charleston Township to DILLINGER & LUTZ, Charleston. Noted Aug. 24.

Ind., Laporte—(Official)—Laporte County let contract road in Center Township to F. J. KING, Laporte, $12,545. Noted Aug. 31.

Ind., Rensselaer—(Official)—County let contract road Marion Township to A. S. KEENE, Wheatfield, $5,072; Kankakee Township, G. STALBAUM, Tefft, $6,999. Noted Aug. 24.

Ind., Rochester—(Official)—Fulton County let contract gravel road in Henry and Rochester Township to HATCH & CARVEY, Macy, $7,866. Noted Aug. 31.

Ind., Valparaiso—(Official)—County let contract gravel road in Center Township to G. McGILLICURDLY, Valparaiso, $4,198. Noted Aug. 24.

Ind., Vernon—(Official)—County let contract road Vernon Township to W. HULSE, Scipio, $7,045. Noted Aug. 24.

Ind., Winchester—Randolph County let contracts roads in White River Township to H. ILIFF, Union City, and G. W. HIATT, Winchester. Noted Aug. 24.

Ind., Williamsport—City let contract paving 5th St. to J. DORDERS.

Mich., Birmingham—City let contract paving portions Redding, Pilgrim and Fairfax Ave. and Oak St. to SLATER CONSTRUCTION CO., Pontiac.

Mich., Menominee—City let contract paving, curbing and guttering to A. CARLSON, about $8,000. Noted Aug. 24.

Mich., Mt. Clemens—City let contract resurfacing South Gratiot Ave. and New St. to S. S. SAXTON CO., 332 South Michigan Ave., Chicago.

Mich., Petoskey—City let contract paving Louis St. to CARPENTER CONSTRUCTION CO., 423 Widdicombe Bldg., Grand Rapids.

Ill., Beardstown—City let contract paving portion Jefferson St. to BEARDSTOWN CONCRETE CONSTRUCTION CO.

Ill., Cicero—Village let contract paving 56th and 58th Court to R. F. CONWAY, 133 West Washington St., Chicago.

Ill., Danville—Vermillion County let contract 398 mi. road to GRANITE CITY LIME AND CEMENT CO., Granite City, about $950,000.

Ill., Edwardsvile—City let contract improving Randle St. to CURDIE CONTRACTING CO., Alton, $19,093. Noted Aug. 17.

Ill., Galesburg—City let contract paving Seminary St. to J. D. McCAULEY, 13-15 Commercial Bldg., $23,152.

Ill., Galesburg—City let contract paving Jefferson St. to J. B. McAULEY, 13-15 Commercial Bldg., $23,865. Noted Aug. 17.

Ill., Knoxville—City let contract 10,000 sq.ft. sidewalk to E. R. LACY, Knoxville.

Ill., Monmouth—Warren County let contract road on Sec. "D," Route 7, to E. A. LORD CONSTRUCTION CO., Monmouth, $9,233.

Ill., Olney—City received low bid paving from A. M. Shattuck, Brazil, East Main St., $12,628, West Main St., $9,655.

Wis., Menominee—City plans to resurface portion Wilson Ave. by day labor.

Wis., Milwaukee—City let contracts paving: DEAN CONSTRUCTION CO., alley paving 18th Ward, $10,448; G. CZERWINSKI, Clinton St., $10,084; MILWAUKEE GENERAL CONSTRUCTION CO., alley paving 14th Ward, $11,602; MANGER CONSTRUCTION CO., Claybourn St., $8,332; F. HILDEBRAND, JR., alley paving, $4,082.

Wis., Weyauwega—Village Bd. let contract paving to A. KRAMP, Berlin.

Iowa, Dubuque—City let contract improving portion Pine St. to J. F. LEE, 18th and Pine St. Noted Aug. 17.

Iowa, Lubuque—City let contract improving portion Eagle St. to J. F. LEE, 18th and Pine St. Noted Aug. 17.

Iowa, Dubuque—City let contract improving portion Nevada St. to J. F. LEE, 18th and Pine St. Noted Aug. 17.

Iowa; Sioux City—(Official)—City let contract 25,000 sq.yd. concrete paving, including 10,000 ft. concrete curb, to HANSEN & SON, Sioux City, $11,645. Noted Aug. 17.

Iowa, Spirit Lake—Dickinson County let contract grading Spirit Lake Rd. to J. E. KUGHN, Dows, $10,000.

Iowa, Waterloo—Blackhawk County let contract 5 mi. highway to G. W. GORDON, Omaha, $25,181.

Minn., Duluth—City rejected bids for paving 6th Ave.

Minn., St. Paul—City let contract grading Burns Ave. to G. HEINABER, $6,440. Noted Aug. 3.

Kan., Chanute—City let contract paving to RUSTAMIER & TURNER, $5,327.

Kan., Manhattan—Riley County let contract Iola-Geneva Rd. to KAW PAVING CO., Topeka, 13,763 sq.yd. gravel, $6,745, 10,476 sq.yd. macadam base, gravel top, $7,123, 21,276 sq.yd., macadam base, gravel top, $14,255.

Kan., Minneapolis—City let contract about 35,000 yd. paving to SECURITY PAVING CO., Kansas City, Mo. Noted June 29.

Kan., Neodesha—City let contract paving 7th, 8th and Grant St. to J. K. SHINN, $10,454. Noted Aug. 24.

Kan., Parsons—City let contract paving Appleton Ave. and 25th St. to ELLIOT & VANCE. Noted June 8.

Neb., Omaha—City let contract grading 37th and Grove St. to J. E. TURNER, 29th and Izard St. Noted Aug. 31.

Neb., Seward—City let contract paving to ROBERTS CONSTRUCTION CO., Lincoln.

Wyo., Sheridan—Warren Construction Co., at $18,000, low bidder paving in Impvt. Dist. No. 6.

Mont., Laurel—H. C. Green, at $43,102, low bidder paving various streets.

Mo., Chillicothe—City let contract paving portion 9th St. to KLEIN PLUMBING AND HEATING CO.

Mo., Higginsville—City let contract paving portion Washington St. to F. D. MARTIN CONSTRUCTION CO., Rialto Bldg., Kansas City.

Mo., Joplin—City let contract paving portion Joplin St. to D. C. TURNBULL, $4,394. Noted Aug. 24.

Mo., Kansas City—City let contract paving portion McGee St. to E. D. TYNER CONSTRUCTION CO.

Mo., Richmond—City rejected bids paving West Main St. G. E. Bay, City Clk.

Mo., Webb City—City let contract paving to STUCKFY & SON, Joplin.

Tex., Bryan—City let contract to KAW PAVING CO., Topeka, Kan., graveling portions North Washington, Robertson, Lee and other streets; curbing and guttering same streets to SEGALL & JARRETT, Waxahachie, about $50,000.

Tex., Port Arthur—City let contract paving Proctor St. and Vandervoort Blvd. to EUREKA CONSTRUCTION CO. About $86,000 available. Noted Sept. 7.

Utah, Ogden—City let contract for paving in Dist. No. 120 to J. P. O'NEIL CONSTRUCTION CO., Ogden, $15,406. Noted Aug. 31.

Ariz., Globe—Gila County let contract paving portion Winkelman-Hayden Highway to TRI-STATE CONSTRUCTION CO., $12,329.

Wash., Camas—Council rejected bids for paving Clark St.

Wash., Seattle—Sparger Construction Co., at $70,900, low bidder paving Duwamish Highway, King County.

Wash., South Bend—Pacific County let contract paving portion Columbia-North Bank Highway and Chinook Depot Highway to E. L. COULTER, $6,498. Noted Aug. 10.

Ore., Eugene—(Official)—County rejected only bid for paving Mohawk Valley Rd. Noted Aug. 24.

Ore., Portland—City received low bid paving East Davis and East 16th St. to OREGON HASSAM PAVING CO., Portland, $13,051. Noted Aug. 31.

Calif., Anaheim—City received low bid paving, about 371,194 sq.ft. on West Broadway from G. R. CURTIS, 552 South St. Louis St., Los Angeles, $37,925.

Calif., Los Angeles—Los Angeles County received low bid paving 2.85 mi. road on Route 1 from Conner Contracting Co., Higgins Bldg., at $10,136.

Calif., Oakland—City let contract improving portion Plymouth St. to J. CATUCCI, 1230 18th St.; 75th Ave., OAKLAND PAVING CO., 5,000 Broadway; Virginia and Elmwood Ave., HUTCHINSON CO., 13th and Franklin St.

Calif., Ontario—City let contract paving to SOUTHERN CALIFORNIA CONTRACTING CO., Los Angeles, San Antonio Ave., $15,444; Mountain Ave., $49,408.

Calif., Oroville—Butte County let contract highway to D. BAYLES, Biggs, $6,950.

Calif., Placerville—City let contract paving to A. TEICHERT & SON, Sacramento, $21,070. Noted Aug. 17.

Calif., Sacramento—City let contract paving portion 1st Ave., to A. TEICHERT & SON; J. St., CLARK & HENEREY CONSTRUCTION CO.

Calif., Sacramento—City let contract paving portion Hale Ave. to CLARK & HENEREY CONSTRUCTION CO., Oehner Bldg., $7,575.

Calif., Sacramento—City let contract improving portion H St. to CLARK & HENEREY CONSTRUCTION CO., Oehner Bldg., $20,393.

Calif., Salinas—City let contract improving Riker St. to D. McCORMICK.

Calif., San Bernardino—City let contract improving 6th St. to W. D. BOHAN.

Calif., San Francisco—Bd. Pub. Wks. let contract paving portion Battery St. to PACIFIC CREOSOTE CO., about $1,000.

Calif., San Francisco—Bd. Pub. Wks. let contract paving portion De Haro St. to J. P. HOLLAND, 550 3rd St., $8,872.

Calif., San Francisco—City let contract sidewalks on Francisco St. to O. McHUGH, Russ Bldg.

Calif., Stockton—City let contract paving to PAUL & CALDWELL, $13,828.

Calif., Tracey—City let contract paving to R. JOHNSTON, $27,792.

Que., Hull—City let contract paving to OTTAWA CONSTRUCTION CO., Central Chambers, Ottawa, about $55,000.

INDUSTRIAL WORKS

Proposed Work

N. H., Keene—(Official)—F. Zecha plans 2-story addition. About $18,000. H. Foster, Arch.

Mass., Attleboro—Frank Mossberg Co., Lamb St., plans two 1-story, 150x200-ft. and 80x120-ft. factories.

Mass., Boston—Massachusetts Manufacturing Co. making plans for 3-story, 29x70-ft. factory and bakery. About $15,000. M. J. Mastrangelo, 40 Court St., Arch.

Mass., Boston—New York, New Haven & Hartford R.R. making plans for 1-story, 60x200-ft. round house. E. Gagel, New Haven, Conn., Ch. Engr.

Mass., Springfield—Bozart Rug Co. making plans for factory. About $100,000. N. C. Bond, North Adams, Arch.

Conn., Danbury—New York, New Haven & Hartford R.R. soon lets contract for roundhouse, machine shops and office building on White St. About $65,000. E. Gagel, New Haven, Ch. Engr.

N. Y., Buffalo—Cataract Refining and Manufacturing Co. making plans for 2-story, 52x80-ft. addition. About $16,000. R. J. Reidpath & Son, Builders' Exchange, Arch.

N. Y., Buffalo—Kelley Island Lime and Transport Co., Leader Bldg., Cleveland, plans factory at Buffalo.

N. Y., Elmira—American La France Fire Engine Co. making plans for addition. Brockway & Collin, Syracuse, Arch.

N. Y., New York—(Brooklyn)—American Can Co., 447 West 14th St., making plans for 6-story factory. M. L. Loney, Arch.

N. Y., New York—(Manhattan)—J. S. Burns & Sons, 600 West 43d St., receiving bids for 6-story, 100x125-ft. rein.-con. factory at 563 11th Ave. About $60,000. M. H. McGuire, 101 Park Ave., Arch.

N. Y., New York—(Queens)—Twin Borough Corporation, Broadway, making plans for 1-story storehouse at Flushing, L. I. About $15,000. A. E. Richardson, 100 Amity St., Arch.

N. Y., New York—(Queens)—Mann Bros., Maspeth, L. I., receiving bids for 2-story, 275x350-ft. brick and concrete factory. About $200,000. Horenburger & Bardes, 122 Bowery, Arch.

N. Y., North Tonawanda—Rand Co., 97 Goundry St., making plans for 3-story addition. About $50,000.

N. J., Allwood—(Passaic post office)—Brighton Mills plans plant.

N. J., Newark—H. M. Albee & Son, 35 Halsey St., plans 5-story, rein.-con. plant.

N. J., West Orange—Edison Co. plans 6-story, 222x666-ft. storage building.

Penn., Philadelphia—J. Sjostrom & Co., Inc., 1719 North 10th St., making plans to rebuild 4-story factory. About $30,000.

Penn., Sharpsville—Sharpsville Boiler Works plans 120x170-ft. factory. H. J. Garvey, Sharon, Pres.

Del., Claymont—Victor Motor Co., 1530 Chestnut St., Philadelphia, Penn., plans plant at Claymont.

Va., Bristol—Federal Extract Co. plans plant. About $100,000.

N. C., Marion—Clinchfield Manufacturing Co. plans cotton mill to be known as Clinchfield Mill No. 2. About $600,000.

Ga., Savannah—Georgia Shipbuilding Co. plans plant. About $50,000.

Miss., Jackson—Royal Feed and Milling Co. plans plant. About $50,000.

Ohio, Cincinnati—Hirsch Rolling Mills, St. Louis, plans plant at Cincinnati. About $500,000.

Ohio, Cincinnati—New Cincinnati Laundry Co. making plans for 3-story, 121x190-ft. laundry. About $75,000. Noted Aug. 31.

Ohio, Cleveland—Mills-Carleton Co., 1886 Carter Rd., plans to rebuild plant.

Industrial Works (Continued)

Ohio, Cleveland—Peters Millwork and Lumber Co., 1895 Carter Rd., plans to rebuild plant.

Ohio, Findlay—A. J. Hull making plans for factory. About $40,000. McLaughlin & Hulsken, 610 Savings Bldg., Lima, Arch. Bids about Sept. 21.

Ohio, Kent—Falls River and Machine Co. made plans for 2-story addition. About $25,000. E. McGeorge, Leader-News Bldg., Cleveland, Arch.

Ohio, Warren—Westgood Tire and Rubber Co. making plans for 1- and 2-story, 100x240-ft. plant. About $200,000. Owen & Co., Leader-News Bldg., Cleveland, Arch.

Mich., Benton Harbor—Baker-Vawter Co. plans 2-story, 60x200-ft. factory.

Mich., Detroit—American Radiator Co., Chome St., making plans for 2-story, 85x87-ft. factory. About $15,000. J. E. Youngberg, 25 North Dearborn St., Chicago, Arch.

Mich., Jackson—Michigan Cornwell Co., 338 Michigan Ave., making plans for refrigerating plant and warehouse. Cowles & Mutscheller, 114 Washington St., Saginaw, Arch.

Ill., Chicago—Hoeft & Co., Ashland Ave. and Kinzie St., making plans for 1-story, 50x50-ft. warehouse. About $10,000. Worthmann & Steinbach, 155 North Clark St., Arch.

Ill., Chicago—Municipal Tuberculois Sanitarium plans 1-story addition to laundry. J. Hunt, 30 North Michigan Ave., Arch.

Ill., Monmouth—Chicago, Burlington & Quincy Railroad Co. plans roundhouse. W. T. Krausch, Arch. T. E. Calvert, 547 West Jackson Blvd., Chicago, Ch. Engr.

Ill., Peoria—Pinkerton Motor Co. making plans for 1-story, 80x107-ft. garage. About $25,000. J. Frederick Klein, 127 South Jefferson St., Arch.

Wis., Milwaukee—Briggs & Stratton Co., 258 Milwaukee St., plans plant at Hopkins Rd. and Center St. About $100,000.

Iowa, Cedar Falls—Wagner Manufacturing Co., 122 West 1st St., making plans for 3-story, 30x73-ft. warehouse. J. G. Ralston, 416 Syndicate Bldg., Waterloo, Arch.

Iowa, Charles City—Hart-Parr Co. plans addition to steel foundry. About $100,000.

Minn., Austin—North Star Refrigerator and Fixture Co., St. Paul, plans 2 brick and concrete factories at Austin.

Minn., Duluth—Bridgeman & Russell Co. making plans for 1-story, 110x150-ft. creamery. About $150,000. J. R. De Waard, Glencoe Bldg., Arch. Noted Aug. 17.

Minn., Minneapolis—Twin City Concretile Co., Inc., plans factory in Northwest or Midway Dist.

Minn., St. Paul—American Dump Car Co., 1004 Pioneer Bldg., plans plant. About $2,000,000.

Minn., St. Paul—Nut House, Inc., 911 Western Ave., Seattle, Wash., plans factory at St. Paul. About $50,000.

Kan., Wichita—Arkansas Valley Interurban Railway Co. plans carhouse. W. J. Faulkner, Wichita, Supt.

Mont., Great Falls—J. Magagnin plans factory. About $128,000.

Mont., Great Falls—Washburn-Crosby Co., Minneapolis, Minn., plans flour mill at Great Falls. About $200,000.

Mo., Kansas City—Columbian Steel Tank Co. plans 8-story, 48x130-ft. factory. A. A. Kramer, Pres.

Mo., St. Louis—Polar Wave Ice and Fuel Co. plans ice-storage plant. About $15,000. Clymer & Drischler, 105 North 7th St., Arch.

Tex., Galveston—Bush & Witherspoon plans addition to plant. About $10,000.

Tex., Galveston—Galveston Coca-Cola Bottling Co. making plans for addition.

Tex., Houston—Reville Rice Association making plans for plant on Houston ship channel. A. M. Poland, Alvin, Pres. Assoc.

Tex., San Antonio—John Fest plans brick machine shop. About $12,000.

Tex., Taylor—(Official)—City is in market for equipment to take care of byproducts of municipal abattoir; also equipment for abattoir itself. W. E. Dozier, City Mgr. Noted Mar. 30.

Colo., Denver—Denver Rock Drill Manufacturing Co. making plans for addition at 39th and Gilpin St. About $15,000. Mountjey & French, Arch.

Wash., Kirkland—Standard Tire and Rubber Manufacturing Co. plans 60x120-ft. Class A factory. M. Freed, Pres.

Ore., Pendleton—Farmer's Grain Agency plans concrete grain elevator and cleaning plant.

N. B., St. John—J. W. Pugsley, Secy. Dept. Railways and Canals, Ottawa, Ont., receiving bids Sept. 18 for grain elevator, 500,000 bu. capacity. Noted Feb. 17.

Ont., Orangeville—Canadian Clock Co. making plans for factory. About $50,000.

Ont., Toronto—Bryant Paper Co., Kalamazoo, Mich., plans pulp mill at Toronto. About $1,500,000.

Ont., Toronto—Queen Hat Manufacturing Co., 82 Bay St., plans factory. About $75,000.

B. C., New Westminister—Marsh Hutton Powers Co., Western Truct Blk., making plans for shingle mill. About $50,000.

B. C., New Westminster—Vulcan Iron Works plans foundry and steel shipbuilding plant. About $150,000. J. R. Duncan, Mgr.

Bids In and Contracts Awarded

Mass., Boston—Grysmish & Sons, 296 State St., let contract 3-story, 55x180-ft. garage to J. F. GRIFFIN CO., 17 Milk St. About $50,000.

Mass., Brockton—Rolli & Bebuecki, Brockton Rd., let contract 1-story, 100x130-ft. bakery to G. W. ELDRIDGE, Moraine St.

Mass., Everett—Market Forge Co., 217 5th Ave., Chelsea, let contract 2-story, 48x200-ft. factory to CLARK & LEE, 201 Devonshire St., Boston. About $20,000. Noted Aug. 10.

Mass., Holyoke—National Blank Book Co. let contract 2-story addition to CASPER RANGER CONSTRUCTION CO., Bond and Appleton St.

R. I., Providence—Wanskuck Co. let contract 2-story, 20x50-ft. addition to GUARANTEE CONSTRUCTION CO., 140 Cedar St., New York. About $90,000.

Conn., Hartford—Billings & Spencer, Park and Laurel St., let contract 1-story, 87x290-ft. forging building to J. H. GROZIER CO., 721 Main St. About $63,000.

Conn., New Haven—Forsythe Dyeing Co. let contract 2-story, 78x300-ft. addition to H. WALES LINES CO., 134 State St., Meriden. Noted Aug. 17.

Conn., Waterbury—Connecticut Co., 134 Grand St., let contract factory to TRACY BROS. CO., 58 Benedict St.

N. Y., Buffalo—Hoefler Ice Cream Co. 296 Connecticut St., let contract 3-story, 100x150-ft. factory to TURNER CONSTRUCTION CO., 11 Broadway, New York.

N. Y., New York—(Manhattan)—T. G. Patterson, Inc., 637 West 55th St., let contract 1-story, 105x135-ft. automobile service station to H. H. VOUGHT & CO., Grand Central Terminal. About $35,000.

N. Y., New York—(Manhattan)—(Official)—Dept. Pub. Charities, Municipal Bldg., received low bids Aug. 31 for 9-story storage building on Blackwell's Island from Benedetto, Clark & Nugent, 423 East 115th St., $20,415; A. Winternitz, $21,000; T. Dwyer, $21,578. Noted Aug. 24.

N. Y., New York—(Queens)—New York and Queens Electric Light and Power Co., 444 Jackson Ave., Long Island City, let contract 2-story, 50x80-ft. storehouse and garage to J. H. DEEVES & BRO., 103 Park Ave. About $30,000. Noted Aug. 17.

N. Y., Plattsburg—Underwood Paper Co., Inc., let contract mill and machine shop to R. H. RHINELANDER, 5 Berry St., Glens Falls. About $90,000.

N. Y., Rensselaer—Bayer Bros., Inc., let contract 2-story, 76x164-ft. factory to FEENEY & SHEEHAN BUILDING CO., 164 Montgomery St., Albany. About $35,000.

N. Y., Rochester—Eastman Kodak Co. let contract 4-story, 40x90-ft. addition to BLAKIN CONSTRUCTION CO., Sommer Bldg., Montreal, Que.

N. Y., White Plains—T. Simpson let contract 1-story, 50x75-ft. garage to F. N. GOBLE, 1 East 42d St. About $25,000.

N. J., Hawthorne—Shafer Ball Bearing Co., Inc., 1790 Broadway, New York, let contract masonry 1-story, 80x250-ft. factory to J. H. STEELE & SON, 140 Market St., Paterson. About $25,000.

Penn., Philadelphia—E. G. Budd Manufacturing Co., Hunting Park Ave., Nicetown, Philadelphia, let contract plant to F. W. MARK CONSTRUCTION CO., Finance Bldg. Noted July 27.

Penn., Philadelphia—M. D. Pancoast Co., 3d and Locust St., let contract machine shop, storage shed and office building to F. A. HAVENS, 845 North 19th St. About $20,000.

Penn., Reading—Carpenter Steel Co. let contract 2-story, 77x193-ft. storage building to BEARD CONSTRUCTION CO., 658 Penn St. About $30,000.

Penn., Wilson—Morris & Bailey Co. let contract plant to McCLINTIC, MARSHALL CO., Oliver Bldg., Pittsburgh.

Md., Baltimore—Sevarese Macaroni Co. let contract 1-story, 120x325-ft. addition to J. H. SMITH, 1426 Light St. About $50,000.

Va., Norfolk—Southgate Terminal Corporation let contract 3-story warehouse on Dumore St. to J. H. PIERCE, Norfolk. About $22,000. Noted Dec. 23.

Ky., Ashland—Ashland Leather Co. let contract rein.-con. addition to CENTRAL ENGINEERING CO., Charleston, W. Va. About $25,000.

Ky., Frankfort—State Bd. of Prison Comrs. let contract factory to SCOTT & STAFFORD. About $10,300. Noted Sept. 7.

Ohio, Bucyrus—Ohio Crane Co. let contract masonry 1-story, 90x200-ft. erecting shop to G TEYNOR. About $40,000. Noted July 27.

Ohio, Cincinnati—French Bros.—Bauer Co. let contract plant at Plum and Canal St. to FERRO CONCRETE CONSTRUCTION CO., Richmond and Harriet St. About $500,000. Noted Feb. 17.

Ohio, Cleveland—Bondy Manufacturing Co. l contract 1-story, 40x100-ft. plant to WALTHER ENGINEERING CO., 1941 East 66th St. Abo $10,000. Noted Aug. 31.

Ohio, Cleveland—K. M. Bruhn, 1711 East 27t St., let contract 1-story, 80x146-ft. machine sh to FRASER CONSTRUCTION CO., 2030 East 61 Pl. About $10,000. Noted Feb. 24.

Ohio, Cleveland—Dann Products Co. let contract plant on East 152nd St. to CROWELL LUNDOFF-LITTLE CO., 1951 East 57th S About $100,000. Noted July 27.

Ohio, Cleveland—Sherwin Williams Co., 601 Canal Rd., let contract plant to MINNICK, GIBBONS CO., 5309 Prospect Ave.

Ohio, East Liverpool—Golding & Sons Co. l contract factory to POTTERS LUMBER Co East Liverpool. About $30,000. Noted Apr. 1

Ohio, Newark—A. H. Heisey Glass Co. let contract 3-story, 50x110-ft. rein.-con. building to W. B. PATTON South Park Pl.

Ohio, Willoughby—Ben Hur Motor Co. let contract 1st unit of plant, 2-story, 150x400-ft rain.-con., to PAUL BROS. CO., 615 Citizens Bldg., Cleveland.

Ohio, Youngstown—General Fireproofing C let contract 1-story, 60x72-ft. factory to HELLER BROS. CO., Furnace St. About $11,000.

Ind., Indianapolis — Hogan Transfer and Storage Co. let contract 5-story warehouse and storage building at 853 Massachusetts Ave. to HALL CURRY CONSTRUCTION CO., Bd. Trade Bldg About $150,000.

Mich., Battle Creek—Grocers, Inc., let contract 3-story warehouse to R. G. PHELPS, 731 Maple St. Noted July 16.

Mich., Detroit—A. Peters, Gratiot and Granby Ave., let contract 2-story, 84x112-ft. storage building to SCHMIED SISMAN CO., 401 Beaufait St. About $10,000.

Ill., Chicago—Albright-Nell Co. let contract 3-story, 100x150-ft. machine shop to E. L. ARCHIBALD CO., 111 West Washington St. About $90,000. Noted Aug. 3.

Ill., Chicago—Central Manufacturing Dist. let contract 2-story, 44x104-ft. addition to factory to be leased by American Printing Ink Co., to E. W. SPROUL CO., 1120 West 35th St. About $20,000. Noted Nov. 25.

Ill., Chicago—T. C. Denneby let contract 1-story, 94x110-ft. auto service station to A. KRAMER, 4343 Wilcox Ave. About $20,000.

Ill., Chicago—Sherwin, Williams Co., 601 Canal Rd., Cleveland, let contract plant to SUMNER, SOLLITT CO., 79 East Adams St. About $75,000.

Ill., Highland Park—D. C. Purdy let contract masonry 1-story, 40x200-ft. warehouse and tin shop to JENSEN & STEENHILL, 185 South Dearborn St., Chicago.

Wis., Beloit—Stewart Warner Speedometer Co. let contract plant to J. JENSEN, 1634 Mozart St., Chicago. About $300,000.

Iowa, Davenport—Kohrs Packing Co. let contract cold-storage plant to A. A. ARNOULD. About $50,000. Noted July 20.

Minn., Duluth—W. Sweat let contract warehouse on West Railroad St. to G. H. LOUNSBERRY.

Minn., Minneapolis—Chute Realty Co., University Ave., N. E., let contract 1-story factory to J. WUNDER CO., 3006 Park Ave. About $30,000. Noted May 11.

Minn., Minneapolis—Washburn—Crosby Co. let contract factory to PIKE & COOK, 416 South 5th St. Noted Feb. 24.

Minn., Minneapolis—Wilcox & Gruber let contract 2-story, 40x100-ft. factory to A. A. KINDEM, 729 Plymouth Bldg. About $10,000.

Minn., Minneapolis—Linde Air Products Co. let contract plant at Stinson Boule and East Henderson Ave. to SPLADY, ALBEE & SMITH, Plymouth Bldg., $150,000.

Minn., New Prague—New Prague Flour Mill Co. let contract grain elevator to HAGLIN-STAHR CO., Lumber Exchange, Minneapolis. About $20,000.

Minn., St. Paul—Twin City Pipe Covering Co. let contract 2-story, 42x100-ft. factory to H. C. STRUCHEN, 405 Dakota Bldg.

Kan., Argentine—National Zinc Works let contract factory to L. CROSBY & SON, 517 Massachusetts Bldg., Kansas City, Mo. About $25,000.

Mont., Portage—Imperial Elevator Co., 306 Chamber of Commerce Bldg., Minneapolis, let contract grain elevator to C. E. BIRD & CO., 614 Corn Exchange Bldg.

Colo., Ft. Morgan—Contract addition to Gillett garage let to N. HOGG, Sterling, $22,000.

Wash., Seattle—Washington Mattress Co. let contract 3-story, 75x180-ft. concrete factory at 4th Ave., S and Walker St. to FERRO CONCRETE CONSTRUCTION CO., Empire Bldg. About $14,000.

Calif., Los Angeles—Globe Grain and Milling Co. let contract 1-story, 200x200-ft. rein.-con. factory to LEONART & PECK, 721 H. W. Hellman Bldg. Noted Aug. 31.

Calif., Los Angeles—Diamond Laundry Co., 2 East 5th St., let contract 4-story, 110x200-ft. rein.-con. laundry to ATLAS BUILDING CO., 911 Haas Bldg. About $100,000. Noted July 27

Industrial Works (Continued)

Que., Montreal—Thompson Norris Co., 355 Notre Dame St., E., let contract rein.-con. factory and power house to ATLAS CONSTRUCTION CO., 37 Belmont St.

Ont., Brantford—Dominion Steel Products Co. let contract rein-con. factory to AUSTIN CONSTRUCTION CO., Cleveland. About $60 000. Noted Aug. 24.

Ont., Ft. William—J. King, Victoria Ave., let contract grain elevator to D. A. GORDON, Luci Court, $55,000.

Ont., Port Arthur—Canadian Northern Ry. let contract roundhouse, machine shops, etc., to J. H. SIMMONS, 7 Florence Ave., Winnipeg, $53,000.

Ont., Toronto—J. G. Kent, Confederation Life Bldg., let contract warehouse to T. ESSERY, Elliott House. About $50,000.

Ont., Toronto—F. W. Woolworth Co., 4 Queen St., W., let contract brick warehouse to S. L. YOLLES, 67 Baldwin St. About $75,000.

FEDERAL GOVERNMENT WORK

Proposed Work

N. Y., Buffalo—Wharf—Lighthouse Inspector, Buffalo, receiving bids Sept. 21 for rebuilding wharf, etc., at Sandusky Bay Lighthouse Depot (Cedar Point), Ohio. (See adv. Sept. 7 issue.)

N. Y., New York—Pipe—Bureau of Supplies and Accounts, Navy Dept., Washington, soon receives bids for furnishing under Schedule 111 miscellaneous black steel pipe.

Penn., Du Bois—Post Office—James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Oct. 19.

D. C., Washington—Cars—Bureau of Supplies and Accounts, Navy Dept., soon receives bids for 3 all steel hopper cars, Schedule 114.

D. C., Washington—Pipe—Bureau of Supplies and Accounts, Navy Dept., soon receives bids for furnishing under Schedule 108 miscellaneous galvanized steel pipe.

Va., Rosslyn—Crane—Dept. of Agriculture, Washington, receiving bids Sept. 29 for one 10-ton electric carrying crane in building at Arlington Farm near Rosslyn.

S. C., Charleston—Dredging—Bureau of Yards and Docks, Navy Dept., Washington, receiving bids Oct. 7, Cooper River. F. R. Harris, Ch.

S. C., Florence—Road Work—Depot Quartermaster, U. S. Army, Washington, receiving bids Sept. 19 resurfacing roadway from city limits to National Cemetery.

Ky., Louisville—Iron Castings—U. S. Engineer Office receiving bids Oct. 2 for gray-iron castings for Lock No. 41, Ohio River. (See adv.)

Mont., St. Ignatius—Canal Work—U. S. Rec. Ser., St. Ignatius, receiving bids Oct. 10, Flathead Project. A. P. Davis, Ch. Engr.

Colo., Denver—Valves—U. S. Rec. Ser., Denver, receiving bids Sept. 20, north tunnel Roosevelt Dam, Salt River Project. A. P. Davis, Ch. Engr.

Bids In and Contracts Awarded

Mass., Woods Hole—Dredging—Lighthouse Inspector, Boston, received bids for dredging channel and basin in Little Woods Hole Harbor from Morris & Cummings Dredging Co., New York, $0.177 per cu.yd.; Coastwise Dredging Co., Norfolk, Va., $0 1895; E. Breyman, 1120 Beacon St., Boston, $0.23. Noted Aug. 24.

N. Y., Buffalo—Dredging—Contract dredging and rock excavation at Dunkirk Harbor let to O. E. DUNBAR, Detroit, $50,258. Noted Aug. 24.

N. Y., New York—Elevator—Low bidders U. S. Marine Hospital, Stapleton, S. I., were: Kaestner & Hecht Co., Chicago, $7,700; Otis Elevator Co., Washington, $8,340; A. B. See Electric Elevator Co., New York, $10,135.

Va.,Norfolk—Building—Low bidders structural shop at Navy Yard, were P. F. Gormley & Co., Washington; G. E. Wyne, Washington; J. H. Miller, Baltimore. Noted Aug. 17.

Fla., Key West—Fire Protection System—Contract let to CARROLL ELECTRIC CO, Washington, at $16,800, Key West Naval Station. Noted Aug. 17.

Ky., Louisville—Hull and Derrick—Contract for steel hull and derrick for dredge "Casey" let to DUBUQUE BOAT AND BOILER WORKS, Dubuque, Iowa, $16,487. Noted July 13.

China, Peking—Ice Plant—Low bidder at U. S. Marine Barracks, (a) work complete at Peking, (b) work complete in accordance with bidders' plans and specifications, (c) price of service for supervising engineer for period 30 days, (d) in excess of 30 days, was Arctic Ice Machine Co., 920 Market Ave., Canton, (a) $5,189, (b) $5,189, (c) $900, (d) $7. Noted Aug. 3.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., Albany—Barge Canal Work—W. W. Wotherspoon, Supt. Pub. Wks., receiving bids Oct. 3 for Contract No. 2-G Erie Canal, Section 1; Contract No. 44-A, Erie Canal, Section 5; Contract No. 132, Erie Canal, Sections 5 and 6; Contract No. 133, Erie Canal, Section 4 and Terminal Contract No. 48. Noted Aug. 10. (See adv.)

Ga., Savannah—Canal—County soon lets contract for extending Casey Canal. E. R. Conant, Engr. Noted July 20.

Ohio, Toledo—Reclamation—City plans to spend about $293,000 for widening and deepening mosquito infested streams reclaiming marsh lands. Election will be held to vote on project. W. H. Gould and C. Dowd, interested.

Ind., Ft. Wayne—Ditch — Allen County plans Schlemmer Ditch. About $6,051.

Ill., Edwardsville—Reclamation—Cahokia Creek Levee and Drainage Dist. plans reclaiming farm lands along Cahokia Creek.

Ill., Quincy—Drainage—Hunt Drainage Dist. Comrs. plan consolidating districts and reclaiming 30,000 acres. About $500 000.

Minn., Elbow Lake—Ditch—Grant County plans ditch, 5 mi. W. G. Burgess, Elbow Lake, Engr.

Minn., Redwood Falls — Ditches — Redwood County receiving bids Sept. 16 for Ditches Nos. 25, 26, 30 and 35. L. P. Larson, Redwood Falls, County Audr.

Minn., St. James—Ditch—Watonwan County receiving bids Sept. 22 for Judicial Ditch No. 11. J. C. Jensen, St. James, County Audr. Noted Sept. 7.

Ark., Marion—Drainage—Comrs. Drainage Dist. No. 8, Crittenden Court, receiving bids Sept. 21 for about 1,350,000 cu.yd. earth excavation. Morgan Engineering Co., 608 Goodwyn Institute Bldg., Memphis, Tenn., Engr. Noted Apr. 6.

Tex., Ft. Stockton—Irrigation—R. Kennedy plans dam to impound waters of Cayonosa Creek and build irrigation plant and canal system.

Tex., Hovey—Irrigation—F. Graef plans irrigation plant on Cayonosa Creek to irrigate 225 acres.

N. M., Springer—Drainage—Springer Ditch Co. plans to improve system.

Ore., Vale—Dam—Warm Springs Irrigation Dist. voted $750,000 bonds for dam and improving distribution system. J. Rigby, Vale, Engr. Noted Sept. 7.

Ore., Vale—Irrigation—Owyhee Irrigation Dist., comprising about 25,000 acres, organized in Malheur County. Address County Clk., Vale.

Calif., Bakersfield—Irrigation—Kern County plans to reclaim about 400,000 acres, build reservoirs and dams and irrigation system. B. McGowan, Dist. Atty., interested.

Bids In and Contracts Awarded

Mass., Gloucester—Dredging—City let contract dredging 6,000 cu.yd. in Gloucester Harbor to BOSTON DREDGING CO., 40 Central St., Boston, 47¼c. per cu.yd. Noted Aug. 17.

N. Y., Albany—Barge Canal Work—Low bids received Aug. 30 for improving New York State Canals, Contract No. 135, Erie Canal, Section 3, from Great Lakes Dredge and Dock Co., Albany, $57,038; A. A. Parker, Waterford, $64,543; Houston Barnard, Rochester, $67,545. Noted Aug. 3.

N. Y., Albany—Barge Canal Work—Low bids received Sept. 6 for Terminal Contract No. 31, dock wall and an approach at Lyons from Lupfer & Remick, Ellicott Sq., Buffalo, $51,653; Chesley, Earl & Heimbach, Inc., 20 Breckenridge St., $51,923; J. A. LaPorte, Mechanicville, $53,426. Noted Aug. 17.

N. Y., Albany—Barge Canal Work—Contract let to LARKIN & SANGSTER, 906 D. S. Morgan Bldg., Buffalo, $115,980, for Contract No. 99, Oswego Canal, Section 1, portions of bridge over Oswego River at Minetto. Noted Aug. 17.

N. Y., New York—(Manhattan)—(Official)—Dredging—Bids received Aug. 16 for dredging West 209th St., Harlem River, Contract No. 1524, rejected. Noted Aug. 24.

N. Y., Rensselaer—Dredging—Contract dredging at foot of Akin Ave., let to J. P. RANDERSON, Albany.

S. C., York — (Official) — Drainage — Turkey Creek Drainage Dist. received low bid for 26 mi. ditches, 86,000 cu.yd. excavation, from L. O. White, Statesville, N. C., $50,000. W. D. Alexander, 412 North Graham St., Charlotte, N. C., Engr. Noted Aug. 24.

Tenn., Selmer—Drainage—Middle Creek Drainage Dist. let contract 228,000 cu.yd. dirt excavation to P. H. THRESHER, $21,000.

Ind., Brazil—Drainage—Low bids received Aug. 25 for channel for Eel River, (a) one floating dredge, (b) 2 floating dredges, from A. V. Wells & Co., St. Louis, (a) 10.4c. per cu.yd.; East & De Frees, Worthington, (b) 10c.; F. C. Morgan, Indianapolis, (b) 19.65c. Noted Aug. 10.

Ill., Lovington — Drainage Work — Lovington Drainage Dist. let contract to J. M. DRISCOLL, Decatur, $20,600.

Ill., Paris—Drainage—Contract cleaning and grubbing drainage Dist. No. 1, Young American Township, let to A. C. McGINNIS & CO., Bement, $21,400.

Ill., Rock Island—Drainage—Drury Drainage Dist. rejected bids received for 9 mi. levee along Mississippi River. About $60,000. Elliott & Harman Engineering Co., Peoria, Engr. Noted Aug. 3.

Iowa, Clinton — (Official) — Ditches — Clinton County let contract ditches in Drainage Dist. No. 17 to F. W. CRANE CO., Omaha, Neb., $57,239. Noted Aug. 24.

Iowa, Glenwood—(Official) — Drainage — Mills County let contract Mills Fremont Drainage Ditch to CALLAHAN BROS. & CREEDON, Omaha, Neb. at $13,395. Noted Aug. 10.

Iowa, Nevada—Drainage—Contract Drainage Dist. No. 75 let to COLE BROS., Ames, $20,000.

Iowa, Webster City—Drainage—Hamilton County let contracts joint county drain to PLYMOUTH CLAY PRODUCTS CO., Ft. Dodge, $23,895, blocks; WESTERN SEWER PIPE CO., Webster City, $22,191, tile; PAUL PAULSON, Carroll, $21 584, labor.

Minn., Foley—(Official)—Ditch—Benton County let contract Ditch No. 14 to P. CHEELEY and A. CHASE, Foley, $6,965. Noted Aug. 10.

Minn., Morris—Ditch Contract open work Ditch No. 25 let to RODGERS CURTIS CO., Minneapolis, $16,571.

Neb., Blair — (Official) — Ditch — Bd. County Comrs. let contract De Soto Ditch Improvements, 25,000 cu.yd., to E. F. QUACKENBUSH, Onawa, Iowa, 19c. per yd. Noted Aug. 24.

Wyo., Germania—(Official)—Drainage—Contract drainage system let to W. P. BULLOCK, Kansas City, $90,000. R. A. Hart, Salt Lake City, Utah, Engr. Noted June 29.

Ark., Little Rock—Drainage—Faulkner's Lake Drainage Dist. Comrs. let contract 17½ mi ditches to E. J. HAHN, Little Rock, $60,700. Noted June 22.

Tex., Donna—(Official)—Irrigation—Donna Irrigation Dist. let contract, reservoirs, dams, canals, laterals, pumping plant, etc., to E. W. WATTS, Donna, $52,000. Noted July 20.

B. C., Vancouver—Dredging—Canadian Pacific Railway Co. let contract dredging waterfront between sheds 3 and 7 to W. D. GRANT, Vancouver, $200,000.

MISCELLANEOUS

Proposed Work

N. Y., Albany—(Official)—Steam Shovel—Work to be sublet, 320,000 cu.yd. steam shovel and dragline work. Address J. A. O'Connor, 100 State St. (See adv. Sept. 7 issue).

N. Y., New York—(Bronx)—(Official)—Yard—Pub. Ser. Comn. for First Dist., 120 Broadway, Manhattan, receiving bids Sept. 28 for railroad yard in connection with White Plains Rd. extension of subway, east of White Plains Rd. north of 239th St., to be known as 239th St. Yard.

N. Y., New York—(Official)—(Brooklyn)—Track Installation—Pub. Ser. Comn., 120 Broadway, Manhattan, receiving bids Sept. 18 for installing tracks on portion Culver Rapid Transit R.R., Brooklyn.

N. Y., Willard—(Official)—Fire Escapes—State Hospital Comn., Capitol, Albany, receiving bids Sept. 21, Willard State Hospital. L. F. Pilcher, Albany, State Arch. (See adv.)

Penn., Philadelphia—Playground Improvements—City making plans improving playgrounds at Manayunk, Cresson and Cotman St., about $50,000; Ann and Cambria St., $50,000; C and Indiana Ave., $42,000; 24th and Jackson St., $29,000; Franklin, Shirley and Wylie St., $15,000. W. B. Champlin, 587 City Hall, Secy. Bd. Recreation. P. H. Johnson, Land Title Bldg., Arch. Noted Mar. 16.

D. C., Bennings—Speedway, Grandstand, Etc.—National Motor Speedway, Inc., making plans. About $500,000. E. Voigt, Jr., 314 Washington Loan and Trust Bldg., Secy. and Treas. J. Wenig, 721 10th St., Arch.

Ohio, Dayton—(Official)—Dam—City receiving bids Sept. 15 for Island Park Dam. F. O. Eichelberger, City Engr. Noted Sept. 7. (See adv. Sept. 7 issue.)

Iowa, Onawa—(Official)—Straightening River—Monona County receiving bids Sept. 19, Soldier River, to abate floods. About $66,000. J. P. Olander, Onawa, County Audr. Noted Aug. 24.

Alta., Calgary—(Official)—Asphalt Plant—City receiving bids Sept. 25 for purchase of 1 No. 11 Warrens Portable Asphalt Repair Plant. (See adv.)

B. C., New Westminster—Dry Dock—Vulcan Iron Works plans. About $200,000. J. R. Duncan, Mgr.

Bids In and Contracts Awarded

Mass., Billerica—Gantry Track—Boston & Maine R.R., Boston, let contract to W. N. PIKE & SON, Lawrence, about $40,000.

Mass., Boston—(Dorchester)—Filling—City received lowest bid from W. J. Barry, 431 Ashland St., Roslindale.

N. Y., Gouverneur—Dam—Contract, Cranberry Lake, let to EATON & BROWNELL, Watertown, $25,000.

N. Y., New York—(Bronx)—(Official)—Filling—F. Brancaccio & Co., 348 East 15th St., Manhattan, at $62,480, low bidder filling in swamp lands in southerly portion Van Cortlandt Park. Noted Aug. 31.

N. Y., New York—(Brooklyn)—(Official)—Comfort Station—Finnan & Lee, 155 Rogers Ave., at $5,755, low bidder, Ft. Hamilton Park. Noted Aug. 31.

N. Y., New York—(Brooklyn)—(Official)—Retaining Wall—N. Di Menna, 2336 Cambrelling Ave., Bronx, at $4,818, low bidder along north property line of Bushwick Playground, Putnam, Knickerbocker and Irving Ave.

Miscellaneous (Continued)

N. Y., New York—(Manhattan)—(Official)—Frogs and Switches—Low bidders 4 portions special work for rapid transit railroads, Pelham Line subway, Order No. 10; Ramapo Iron Works, 30 Church St., $11,427; Bethlehem Steel Products Co., 11 Broadway, $11,833; W. Wharton, Jr., & Co., Inc., 30 Church St., $12,126. Noted Aug. 31.

N. Y., New York—(Manhattan)—(Official)—Track Installation—Low bidders installation of tracks for 7th Ave. branch of Seventh Ave.-Lexington Ave. Rapid Transit R.R., boroughs of Manhattan and Brooklyn; Engel & Hevenor, 220 Broadway, $229,440; T. Crimmins Contracting Co., 141 East 69th St., $248,475; T. H. Reynolds Contracting Co., 13 Park Row, $260,010. Noted Aug. 31.

N. Y., New York—(Manhattan)—(Official)—Cables—Fire Comr., Municipal Bldg., received bids Aug. 24 for underground lead-covered distribution cables from 82d St. to Ft. George Ave. from Okinite Co., 413 Postal Bldg., $139,069; Safety Insulated Wire and Cable Co., $142,138; Standard Underground Cable Co., $183,722. Noted Aug. 24.

N. Y., New York—(Manhattan)—(Official)—Frogs and Switches—Pub. Ser. Comn. for First Dist. let contract for supply of special work. Order No. 9, frogs and switches, for use of Rapid Transit R.R., Culver Line, to RAMAPO IRON WORKS, 30 Church St., $29,859. Noted Aug. 17.

Miss., Clarksdale—Levee Work—Yazoo—Mississippi Delta Levee Bd. let contract emergency loop to R. L. LEONARD & CO., Memphis, $100,000. Noted Mar. 16.

Miss., Gulfport—(Official)—Seawall—City rejected bids received Sept. 5. About $180,000. H. D. Shaw, City Engr. Noted Aug. 17.

La., New Orleans—Levee—Contract Gretna to Gouldsboro Levee, 69,000 cu.yd., let to T. O. HOTARD, 24.50c. per cu.yd.

La., Transylvania—Levees—Contract 150,000 cu.yd. levees let to HELGASON BROS.

Tenn., Memphis—Levee—Shelby County Comrs. let contract Benjestown Levee to C. G. GOWAN, Bartlett, $15,000.

Ohio, Cincinnati—Comfort Station—Bd. Control let contract to J. M. QUILL, 1737 Madison Rd., about $29,000.

Ohio, Norwood—Comfort Station—City let contract to G. HAMBLY, 2604 Harris Ave. About $18,000.

Ohio, Put-in-Bay—Retaining Wall—Perry Centennial Comrs. let contract north side Perry Centennial Monument to N. FOX & SONS, Put-in-Bay.

Ohio, Toledo—Coaster Track—Walbridge Park Toboggan Co. let contract, Walbridge Park, to T. M. HARTON CO., Toledo, $12,000.

Ohio, West Park—Fire Station—W. Moore & Co., 1276 West 4th St., Cleveland, submitted lowest bid, 2-story. About $20,000. F. Feutcher, Clk. Noted Aug. 10.

Mich., Detroit—Dock—Berry Bros. let contract to CANDLER DOCK AND DREDGE CO., 305 Moffat Bldg.

Ill., Peoria—Pavilion—Pleasure Driveway and Park Dist. let contract to W. BENSON, 416 College St. About $15,000.

Mo., Kansas City—Shelter Station—Kansas City Railway Co. let contract, 23d and Main St., to E. L. WINN CONSTRUCTION CO., 105 Midland Bldg.

Ark., Lake Village—Levee—Chicot County let contract Gaines Landing Levee, 60,000 cu.yd., to G. R. LACY, 39c. per cu.yd.

Tex., Houston—Conveyors—City let contract 3 apron conveyors, Reno Type, at Wharf No. 4 to E. HANAK CONTRACTING CO., Houston, $18,167. Noted Aug. 10.

Okla., Oklahoma—Grandstand—State Fair Dirs. let contract to LISLE-DUNNING CONSTRUCTION CO., Oklahoma. About $12,000.

Colo., Boulder—Bathhouse—City let contract to NELSON & PETERSON, Butte, Mont., about $15,000.

Wash., Everett—Rehabilitating Elevated Roadways—Snohomish County Comrs. let contract to EVERETT CONSTRUCTION CO., Everett, $11,535.

Wash., Seattle—Comfort Station—City will build 4th Ave. and Madison St., by day labor. About $22,487. Noted July 6.

Ore., Marshfield—Wharf—Portland, Eugene & Coos Bay Land Co. let contract at Crawford Point to NOBLE PILE DRIVING CO.

Calif., Los Angeles—Sprinkler System—Contract automatic sprinkler system in municipal harbor warehouse let to PACIFIC FIRE EXTINGUISHER CO., H. W. Hellman Bldg., $14,000. Noted Sept. 7.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

N. H., Exeter—Gymnasium and Swimming Pool—Phillips Exeter Academy receiving bids about Oct. 10, 1-story, 80x100-ft. F. A. Colby, 15 East 40th St., New York, Arch. Noted Aug. 24.

Mass., Amesbury—High School—City receiving bids Sept. 18, 2-story, 125x168-ft. About $125,600. Noted Aug. 17.

Conn., New Haven—(Official)—New Haven Orphan Asylum, New Haven, receiving bids for 3 office buildings, 4-story, 30x75-ft., 5-story, 45x135-ft. and 4-story, 40x100-ft. respectively, about $250,000. Stephenson & Wheeler, 2 West 45th St., New York, Arch.

N. Y., East View—(Official)—Alma House—Westchester County receiving bids, 2-story, 500x800-ft. brick. About $500,000. Walker & Gillette, 128 East 37th St., New York, Arch.

N. Y., New York—(Bronx)—(Official)—Theater—H. Jame, care of Cortland Realty Co., 200 Broadway, Manhattan, receiving bids, 80x121-ft., brick, about $100,000. J. M. Felson, 1133 Broadway, Manhattan, Arch.

N. Y., New York—(Brooklyn)—(Official)—Store—Alto Building Co., 44 Court St., receiving bids, 1-story, 126x150-ft., brick, about $60,000. S. Millman, 26 Court St., Arch.

N. Y., New York—(Queens)—(Official)—Office—Title Guarantee and Trust Co., 176 Broadway, Manhattan, receiving bids, 3-story, 63x135-ft., brick, Jamaica. About $105,000. Severance & Van Allen, 4 West 37th St., Manhattan, Arch.

N. Y., Westbury—(Official)—Riding Academy—W. R. Grace, 7 Hanover Sq., New York, receiving bids for two wings, 2-story, 35x110-ft. and 26x85-ft. additions. About $80,000. J. O'Connor, 3 West 29th St., New York, Arch.

N. J., Garfield—High School—Bd. Education receiving bids Sept. 21. About $90,000. W. J. Kelly, P. O. Bldg., Passaic, Arch. Noted Mar. 2.

Penn., Chester—Theater—J. F. Zimmerman soon lets contract, brick, stone, concrete and terra cotta. About $200,000. Hoffman Co., Globe Theater Bldg., Philadelphia, Arch. Noted Aug. 10.

Md., Baltimore—Store, Theater and Garage—Majestic Theater making plans, 3-story, 75x300-ft. About $80,000. Blanke & Zink, 647 Equitable Bldg., Arch.

Ohio, Elyria—(Official)—Bank—Elyria Savings Deposit Bank and Trust Co. receiving bids, 2-story, 36x100-ft., marble and granite. About $45,000. A. Hopkins, 101 Park Ave., New York, Arch. Noted Aug. 24.

Ohio, Weston—School—Bd. Education receiving bids Sept. 23, 2-story, 45x58-ft. About $45,000. S. P. Stewart & Son, Bowling Green, Arch. Noted Aug. 24.

Mich., Brooklyn—School—Bd. Education receiving bids Sept. 21. W. M. Taylor, Secy. L. H. Field, Jr., Jackson, Arch.

Wis., Prairie du Chien—High School—Bd. Education receiving bids Sept. 22, 2-story. About $60,000. Parkinson & Dockendorff, La Crosse, Arch. Noted May 25.

Minn., Mora—High School—City voted $40,000 bonds. Noted Aug. 17.

Minn., Rochester—Hotel—Kahler Hotel Co. plans 8-story annex to Zumbro Hotel. About $75,000. F. H. Ellerbe, 692 Endicott Arcade, St. Paul, Arch.

Minn., St. Paul—(Official)—Hospital—Clarence Johnston, Arch., Capital Bank Bldg., receiving bids about Nov. 1 for St. Joseph Hospital. About $400,000. Noted Aug. 31.

S. D., Clear Lake—Courthouse—Deuel County soon receives bids, about $85,000. J. M. Wold, Clear Lake, Audr. Buechner & Orth, 500 Shubert Bldg., St. Paul, Arch. Noted Aug. 10.

S. D., Irene—School—Bonds for $40,000 voted.

S. D., Sioux Falls—School—Lutheran Normal School plans, about $55,000.

N. D., Mayville—High School—Haxby & Braseth, Fargo, making plans, 3-story, brick. Bids about Sept. 20.

Mont., Bozeman—Theater—Gallatin Amusement Co. making plans, about $75,000. F. F. Wilson, Arch.

Mont., Kalispell—High School—Powell County soon votes on $60,000 bonds.

Mo., Bowling Green—Courthouse—City votes Nov. 7 on $100,000 bonds. Noted May 25.

Mo., Carthage—Schools—Bd. Education receiving bids Sept. 22 for 2 ward schools. About $40,000 each. W. F. Maring, Secy. Noted July 27.

Mo., Jewell—High School—City plans. About $40,000.

Mo., St. Joseph—Empire Trust Co. made plans for 3-story building at 8th and Francis St. About $50,000.

Mo., St. Joseph—Church—First Christian Congregation soon receives bids, 10th and Faraon St. About $75,000. W. Boschen, Arch.

Ark., Little Rock—Bd. Trustees University of Arkansas plans 4-story building at State General Hospital, about $150,000.

Tex., Cuero—Jail—De Witt County making plans, 3-story, about $150,000. Address County Clk., Cuero.

Tex., Dallas—Baptist General Convention of Texas plans buildings and improvements to Baylor Medical College and Baptist Sanitarium, about $255,000. Address G. W. Truett, Baptist General Convention of Texas.

Tex., Houston Heights — Schools—See item under "Miscellaneous."

Tex., Marlin—School—Bd. Education soon to let contracts. About $60,000. C. D. Hill & Co., Dallas, Arch. Noted Aug. 17.

Tex., Paris—Courthouse—County Comrs. making plans. Buchanan & Gilder, Ft. Worth, Arch.

Okla., Sapulpa—Bank—First National Bank making plans, 3-story. W. M. Griffith & Sons, Arch.

Colo., Denver—J. K. Mullen plans Home for Aged on 29th Ave. About $400,000.

Colo., Denver—Store—A. T. Lewis & Son Dry Goods Co., 16th and Stout St., plans 6-story addition. About $300,000. H. W. J. Edbrooke, Tabor Grand Bldg., Arch.

N. M., Magdalena—School—Plans made, 2-story, 48x72-ft. brick. About $40,000. A. N. White, Santa Fe, Supt. Pub. Instruction.

Idaho, Wallace—Hotel—A. G. Moodhe, 115 East Liberty St., Spokane, Wash., plans, 3-story, 99x100-ft., at Wallace. About $70,000.

Nev., Hawthorne—Hospital—Mineral County receiving bids Sept. 18. J. H. White, Hawthorne, County Clk.

Ore., Bend—Store and Office—D. H. Sphier made plans, 2-story, 50x150-ft. brick. O. G. Brubaker, 1037 Wall St., Arch.

Ore., Portland—Store—A. Huth, Tacoma, made plans, 5-story, brick and concrete. About $150,000. J. V. Bennes, Chamber of Commerce Bldg., Arch.

Calif., Colusa—School—City plans. About $65,000.

Calif., Los Angeles—Theater—R. Aronson and associates plan. About $500,000. W. Curlett & Son, Mercantile National Bank Bldg., Arch.

Calif., San Diego—J. M. Anderson, New Southern Hotel, plans 10-story building at 5th St. and Broadway.

Bids In and Contracts Awarded

Mass., Gloucester—New England Telephone and Telegraph Co., 50 Oliver St., Boston, let contract 2-story, 50x60-ft., brick building to D. L. SHEPARD, 46 Cornhill St., Boston.

Conn., Bridgeport—(Official)—High School—Bd. Education let contract to EASTERN ENGINEERING AND CONTRACTING CO., Derby. Noted Aug. 24.

N. Y., New York—(Manhattan)—Barnard College let contract 4-story students' building on Broadway near 116th St. to C. A. COWEN & CO. About $600,000. Noted June 22.

N. J., Butler—Church—St. Anthony's Church let contract addition to MILLER & REED, 103 Park Ave., New York.

Penn., Tarentum—People's National Bank let contract building to R. H. FISHER, $50,000.

Va., Roanoke—Hospital—Lewis Gates Hospital let contract addition to J. F. BARBOUR & SONS, Roanoke. About $40,000. Noted Aug. 17.

Ga., Atlanta—Store and Office—Chamberlin-Johnson Du Bosse Co. let contract, Whitehall St. to CUDE & CO., Atlanta. About $150,000.

Ky., Covington — (Official) — German Mutual Fire Insurance Co. let contract 3-story building to J. J. CRAIG, Covington. Noted Aug. 24.

Ohio, Eaton—Courthouse—Roche, Brunner Co., 910 Johnston Bldg., Cincinnati, submitted lowest bid, 3-story, 76x147-ft. About $250,000. Noted Aug. 10.

Ind., Bedford—Lodge—B. P. O. E. let contract, 2-story, to LESLIE COLVIN, Anderson. About $40,000. Noted May 25.

Mich., Jackson—Hospital—City received lowest bid, 4-story, 47x138-ft., from O. W. Rosenthal, 80 East Jackson Blvd., Chicago. About $150,000. Noted July 20.

Ill., Blue Island—High School—Bd. Education let contract, 2-story, 85x180-ft., to ENGELS CONSTRUCTION CO., West Pullman. About $80,000. Noted Aug. 17.

Ill., Peoria—Contract 12-story addition to Lehmann Bldg. let to V. JOBST & SON, Peoria, $250,000.

Wis., Plum City—School—City let contract to L. A. FRANK, Elmwood.

Iowa, Ft. Dodge—Hotel—Contract addition to Wahkonsa Hotel let to J. C. MARDIS CO., Des Moines, $125,000. Noted May 25.

Iowa, Monticello—Hospital—H. M. Jones let contract to A. H. MEWMANN & CO., 519 Hubbell Bldg., Des Moines. About $50,000. Noted Aug. 24.

Kan., Parsons—Hospital—Epileptic Hospital let contract addition to J. W. PARHAM, Dodge City. About $50,000. Noted June 22.

Neb., Stella—High School—City let contract to A. H. MILLER.

Mont., Bute—Theater and Office—Silver Bow Amusement Co. let contract, 4-story, 94x100-ft., brick, concrete and terra cotta, to KIEBURTZ & SMITH, Railway Exchange Bldg., Seattle, $65,000.

Mo., Macon—Library—Contract public library let to SIMON CONSTRUCTION CO., Columbia, $112,762.

Calif., Sacramento — Temple — Knowles & Mathewson, San Francisco, $139,778, submitted lowest bid, 4-story, 11th and J St., for Native Sons, F. & A. M. Noted Aug. 10.

B. C., Vancouver—Office—Canadian Northern Railway Co. let contract, 2-story, 50x800-ft., iron and steel to NORTHERN CONSTRUCTION CO., 736 Granville St., Vancouver. Noted Aug. 31.

Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Maine—Biddeford & Saco R R plans to extend its lines on North St., Biddeford, to Eastern Division of Boston & Maine R.R. C. N. Durrell, Biddeford, Supt.

Massachusetts—Worcester Consolidated Street Ry. granted franchise to install extra tracks on Salem Sq. and Salisbury St. H. C. Page, Worcester, Gen. Mgr.

New York—International Ry. plans double tracks on Elmwood Ave., about 1 mi., Buffalo. J. C. Sheldon, Buffalo, Pur. Agt

New Jersey—Public Service Ry., Newark, plans tracks from terminus of Cedar Lawn line at Market St. and Wesel Rd. to entrance of Cedar Lawn Cemetery. R. E. Danforth, Newark, Gen. Mgr.

West Virginia—Monongahela Valley Traction Co. made surveys for extension of Weston line through Stealey Heights St., Fairmont. E. B. Moore, Fairmont, Gen. Mgr.

West Virginia—Wheeling Coal R.R. making locations surveys for proposed line from Wheeling to Marianna, about 40 mi. This is Pennsylvania R.R. project. A. C. Shand, Philadelphia, Ch. Engr. Noted Aug. 31.

West Virginia—Wheeling & Eastern R.R. to let contracts soon for railway from Wheeling, W. Va., to McCann's Ferry, Penn T. H. Swartz, 502 National Bank Bldg., Wheeling, Secy. Noted Sept. 14.

South Carolina—Surveys being made by W. M. Moncure, Engr., Hamlet, and associates, for railway from Rock Hill to Spencer, about 12 mi. J. T. Roddey, interested. Noted July 6.

Florida—Central Florida Interurban Railway Co. granted franchise by citizens of St. Cloud to build interurban railway from Melbourne to St. Cloud and Sanford. W. Hall, St. Cloud, interested. Noted Aug. 10.

Florida—Mobile, Bolanda & Pensacola R.R. plans extension to Pensacola, about 40 mi. C. Barclay, Bay Minette, Pres.

Alabama—Selma Street and Suburban Ry. plans to extend its line on Selma Ave., Selma. J. H. Dawes, Philadelphia, Penn., Gen. Mgr.

Kentucky—City of Henderson, Ky., passed ordinance for electric railway franchise by terms of which extensions will be added to present lines. Franchise will probably be sold to Henderson Traction Co.

Indiana—Columbus, Greensburg & Richmond Traction Co., Columbus, submitted project to build railway from Columbus to Richmond, via Greensburg and Connersville to financing company. J. A. Shafer, 1946 Park Ave., Indianapolis, Ch. Engr. Noted Apr. 13.

Illinois—Kewanee & Eastern Electric Ry. making preliminary surveys for line from Kewanee to Henry. C. G. Lampman, Cedar Rapids, interested. Noted May 25.

Wisconsin—Minneapolis, St. Paul and Sault Ste. Marie Ry. making surveys for line from Reserve to Mellen. C. N. Kalk, Minneapolis, Ch. Engr. Noted Mar. 23.

Kansas—Missouri, Oklahoma & Gulf Ry. plans line between Military and Baxter Springs, about 12 mi. J. W. Dawson, Muskogee Ch. Engr.

South Dakota—Mitchell & Northwestern Ry. applied to State Railroad Comn. for permission to build railway from Mitchell to Highmore through Davis, Aurora, Jerauld, Buffalo, Hand and Hyde Counties. E. R. Tillinghast and W. L. Bruce, Mitchell, interested.

Missouri—Kansas City Ry., Kansas City, received franchise from Council to construct single track line on 25th St. from Troost to Grand Ave. J. E. Gibson, Kansas City, Gen. Mgr.

Alberta—Canadian Northern Ry. plans 35 mi. track from Edson, Alta., westerly. M. H. MacLeod, Winnipeg, Man., Ch. Engr.

Bids In and Contracts Awarded

Pennsylvania — Philadelphia & Garrettsford Railway Co. let contract line from Collingsdale to Sharon Hill to W. J. TORRINGTON, Weightman Bldg., Philadelphia, about $25,000. Noted Jan. 6.

West Virginia—Pennsylvania R.R. let contract branch up ~~Buffalo Creek~~ to FERGUSON & EDMONDSON CO., Keystone Bldg., Pittsburgh.

Iowa—Ft. Dodge, Des Moines & Southern Ry. let contract grading line from Ft. Dodge to Webster to D. JEFFREY, La Mars; bridges to A. H. NEUMAN & CO., 519-20 Hubbell Bldg., Des Moines. Noted Apr. 27.

LIGHT, HEAT AND POWER

Proposed Work

Mass., Westfield—Town plans election to vote on additional appropriation for electric-light plant.

Mass., Winchendon—Winchendon Electric Light and Power Co. plans to improve Generating Station No. 2.

R. I., Cumberland—Blackstone Valley Gas and Electric Co., Pawtucket, granted permission for transmission lines on Wrentham, Sneach Pond and Sheldonville Rd.

R. I., Providence—Wanskuck Co., 725 Branch Ave., Providence, granted permit for addition to power plant of Mill No. 5.

N. Y., Buffalo—Delaware, Lackawanna & Western R.R., 24 Michigan St., soon receives bids for power house. About $18,000. G. J. Ray, Engr. Noted Sept. 7.

N. Y., Hudson—(Official)—New York State Training School for Girls receiving bids Sept. 26 for heating work. A. Windsor Allen, Pres. Bd. Mgrs. (See adv.)

N. Y., Lockport—Hydraulic Race Co. plans extensive power developments at Lockport.

N. Y., New York—(Manhattan)—(Official)—Bd. Education, Park Ave. and 59th St receiving bids Sept. 27 for heating system in School 101, 111th St., School 109, 99th St., School 168, 104th St., Manhattan. C. B. J. Snyder, Supt. School Bldgs.

N. J., Blackwood—Camden County Almshouse plans new power house. Address County Clk., Camden.

Penn., Halifax—Borough Council plans electric-lighting system.

Penn., Philadelphia—Hardwick & Magee Co. plans boiler plant.

Penn., Pittsburgh—Pressed Steel Car Co. granted permit for 1-story power house on Bison St., about $4,500.

Penn., St. Clair—Schuylville Railway Co. plans new power plant at St. Clair.

W. Va., Webster Springs—Webster Springs Power Co. applied to Pub. Ser. Comn. for permission to build dams on Elk and Gauley Rivers Webster County.

N. C., Belhaven—See item under "Sewers."

N. C., Morehead City—City issued $20,000 bonds for electric-light improvements. M. L. Willis, Secy. and Treas.

N. C., Vancouver—Hotel Vancouver plans power plant.

S. C., Central—Citizens voted $10,000 bonds for electric-lighting system.

Fla., Lake Butler—City plans electric-light plant. B. M. Wilson, Mayor.

Ky., Perryville—Russell Bros. Co. making plans for electric-light plant. About $50,000. Noted July 6.

Ohio, Celina—(Official)—Bd. Trustees of Pub. Affairs receiving bids Sept. 26 for one 300-hp. capacity steam engine at 100 lb. steam pressure, speed about 200 r.p.m. with not exceeding 2 lb. pressure, also alternate proposals on one 300-hp. steam engine complete direct-connected to a 200-kw., 2-phase cycle 2,300 alternator. G. A. Petrie, Clk. E. B. Kay, Winchester, Consult. Engr.

Ohio, Cincinnati—Springer & Wood Co., St. Louis, Mo., plans power plant at Walnut Hills.

Ohio, Cleveland—City votes in fall on $1,750,000 bonds for electric-light improvements. R. Hoffman, City Engr.

Ohio, Kenton—Hardin-Wyandoft Lighting Co. plans boiler house at Water St. plant.

Ohio, London—City soon receives bids for electric-light plant. F. H. Froehlich, Second National Bank Bldg., Toledo, Engr. Noted June 29.

Ohio, Rittman—City receiving bids Nov. 1 for power line from power station to pumping station. V. Hickin, Clk.

Ohio, Wooster—Wooster Electric Co. plans to extend transmission lines about 8 mi.

Ind., Michigan City—City voted $10,000 bonds for heating plant at courthouse. E. G. Dunn, City Engr.

Ind., South Bend—St. Joseph County Anti-Tuberculosis Hospital Association plans power plant at hospital. G. O'Brien, Pres. Bd. Dirs.

Mich., Grand Rapids—National Brass Works plans 1-story, 45x80-ft. brick power plant.

Mich., Lansing—W. K. Pruden receiving bids about Oct. 1 for power house. B. E. Parks & Son, Houseman Bldg., Grand Rapids, Engr. Noted July 13.

Ill., Montgomery—Montgomery Hydroelectric Co. retained H. A. Strauss, Harris Trust Bldg., Chicago, as consulting engineer in connection with proposed hydro-electric development on Fox River.

Ill., Teutopolis—Eastern Illinois Utilities Co granted franchise by Village Bd. for electric lighting system.

Wis., Kenosha—Wisconsin Gas and Electric Co. plans to spend about $250,000 for improving plant.

Wis., Milwaukee—St. Cyril's Methodist Church plans central heating plant. L. M. Gurda, 478 Mitchell St., Arch.

Iowa, Farmington—City plans to rebuild electric-light plant recently destroyed by fire.

Iowa, Kensett—Citizens voted to grant Kensett Light Co. franchise for electric-light, heating and power system in Kensett.

Minn., Hoffman—Village voted $10,000 bonds for electric-lighting system. Noted Sept. 14.

Minn., Hutchinson—Hutchinson Gas Co., care of Gas and Electric Construction Co., plans gas plant. About $30,000. E. E. Collins, 509 N. W. Bank Bldg., Minneapolis, Pres.

Minn., Lancaster—City plans to install electric-light plant.

Minn., Lester Prairie—Northwest Light and Power Co., Hutchinson, plans to install electric distributing system in Lester Prairie.

Minn., Wabasha—Wabasha Gas Co. plans plant About $20,000. D. A. Fredericks, Pres.

Minn., Wanda—R. Wherland granted franchise to construct electric-lighting system.

Kan., Jetmore—City plans $10,000 bond issue for enlarging electric-light plant and water system.

Neb., Bridgeport—Bridgeport Electric Light and Power Co. plans to improve and enlarge power plant.

N. D., Hampden—(Press)—Company being organized to be known as Hampden Light Co. to take over electric plant on Hampden Implement Co. New owners plan to improve plant and extend system. F. H. Rieger, Mgr.

N. D., Hurdsfield—Hurdsfield Milling Co. plans electric-light plant.

N. D., Minto—F. J. Lizkowski granted franchise to construct electric-light plant.

Mont., Cut Bank—Council plans election to vote on franchise for electric-lighting system in Cut Bank.

Mont., Superior—City plans electric-light plant.

Okla., Tulsa—Hickory Coal Co. plans power house. H. Adamson, Mine Foreman.

Okla., Waynoka—City plans to improve electric-light plant. About $25,000. W. R. Barrick, Pres. Bd. Trustees.

Colo., Boulder — W. S. Campbell, Mechanical Engr., Denver, made plans for water power sites for hydro-electric power plant at mouth of Boulder Canyon to develop about 4,000 hp., about $250,000.

Utah, Lehi—W. A. Knight, Mgr. Canal Companies of Salt Lake County, and S. Q. Cannon, City Engr., Salt Lake City, interested in power plant at mouth of Deer Creek in American Fork Canyon to supply power to operate pumps at head of Jordan River to elevate water from Utah Lake for Associated Canal Companies of Salt Lake County. About $175,000.

Ark., Cave Springs—Snowden Engineering Co., recently incorporated with $500,000 capital stock, plans steam driven electric plant. G. H. Snowden, Kansas City, Mo., Pres.

Ark., Nashville—City created Electric Light Dist. No. 1 and plans plant.

Ark., Yellville—City purchased electric-light plant and will improve distribution system in residence districts. W. C. Stevenson Mgr.

Calif., Fresno—Pacific Light and Power Co. plans developing hydro-electric power on Big Creek. About $6,000,000. E. F. Scattergood, Los Angeles, Ch. Electrical Engr.

Ont., Arthur—Town plans hydro-electric system, about $15,000.

Bids In and Contracts Awarded

N. H., Portsmouth—Rockingham County Light and Power Co., 29 Pleasant St., let contract transformer and boiler house to E. W. TREFETHER, Portsmouth. About $180,000.

Mass., Quincy—Pneumatic Scale Corporation let contract 1-story, 30x60-ft. power plant to ABERTHAW CONSTRUCTION CO., 27 School St., Boston.

Mass., Springfield—Bosch Magneto Co. let contract power house to CASPER RANGER CONSTRUCTION CO., Bond and Appleton St., Holyoke.

Penn., Lancaster—Armstrong Cork Co., New Holland Ave., let contract 2-story transformer building to HERMAN WOHLSEN, Woolworth Bldg.

Light, Heat and Power (Continued)

Penn., Philadelphia—S. B. and W. Fleisher let contract power house to W. STEELE & SONS CO., about $70,000.

Md., Baltimore—Gas and Electric Co., Monument and Constitution St., let contract gas plant at Race and Barney St. to BENNETT BUILDING CO., Baltimore, about $45,000.

Ky., Irvine—City let contract improving and enlarging electric-light plant to N. B. TUCKER.

Ky., Lothair—Contract addition to power house let to C. E. CARLIN, Welch, W. Va.

Ind., La Porte—Comrs. La Porte County rejected bids received for 1-story power plant. About $10,000. Noted Aug. 24.

Minn., Hartland—City let contract electric-light plant to J. F. MUIR, 2395 University Ave., St. Paul.

Ark., Little Rock—Little Rock College let contract central heating and power plant to M. B. SAUNDERS, Little Rock, $14,595.

BRIDGES

Proposed Work

Vt., Winooski—City plans bridge on Vermont St.

Penn., Indiana—Indiana County receiving bids about Oct. 1 for rein.-con. bridge over Lick Creek. J. M. Marshall, Indiana, Chn. Bd.

Penn., Johnstown—City Council plans rein.-con. viaduct from upper end Maple Ave., Woodvale, to lower end of Conemaugh, connecting 1st and Chestnut St. J. R. Crissy, City Engr.

Penn., Philadelphia—City applied to Pub. Ser. Comn. for permission to build new bridge on Marcie St. Chester Albright, City Engr.

Va., Bowling Green—Comrs. Caroline, Bowling Green and Hanover Counties receiving bids Sept. 28 for bridge over Pamunkey River. G. P. Coleman, Richmond, State Highway Comr.

W. Va., Hamlin—Lincoln County plans 5 rein.-con. bridges. A. P. Haupin, Huntington, Engr.

Fla., Arcadia—(Official)—Bd. Comrs. De Soto County receiving bids Oct. 18 for 1 rein.-con. bridge, about 4,700-ft. long with draw span having 50-ft. clear opening and 2,100 lin.ft. causeway across Charlotte Harbor between towns of Charlotte Harbor and Punta Gorda, Charlotte Harbor Special Rd. and Bridge Dist. of De Soto County. A. L. Durrance, Arcadia, County Clk. H. S. Jaudon Engineering Co., Savannah, Engr. Noted Apr. 13 under Punta Gorda. (See adv.)

Fla., Clearwater—Pinellas County receiving bids Oct. 3 for Anchlote River Bridge. C. W. Wiecking, Clearwater, County Clk. Noted Aug. 17.

Ala., Bay Minette—Baldwin County Bd. of Revenue receiving bids Oct. 3 for rein.-con. bridge over Little River. Address County Clk., Bay Minette.

La., Mermenton—State Highway Dept., Baton Rouge, plans bridge over Mermenton River.

Tenn., Del Rio—Cocke County Comrs. voted $6,500 to rebuild bridge at Del Rio. Address County Clk., Newport.

Ohio, Akron—Summit County making plans for North Hill Viaduct, 2,300-ft. long, about $1,200,000. E. W. Paul, Court House, Akron, County Engr. Wilbur Watson, Leader-News Bldg., Cleveland, Consult. Engr. Noted Aug. 24.

Ohio, Lebanon—Warren County receives bids about Oct. 1 for creosoted block and rein.-con. bridges. C. S. Mountz, Lebanon, Audr. R. Miller, Court House, Engr.

Ohio, Massillon—Stark County receiving bids Sept. 29 for improving Main St. bridge over canal. Address County Clk., Canton.

Ohio, Tiffin—(Official)—Seneca County receiving bids Sept. 30 for Outhwaite Bridge No. 46, Bloom Township. J. E. Hershberger, Tiffin, County Audr.

Ohio, Zanesville—Muskingum County Comrs. rejected bids for substructure of Bonifield Bridge.

Ill., Kankakee—(Official)—Kankakee and Will Counties rejected bids for bridge over Kankakee River between 2 counties. New bids Oct. 2. Noted Sept. 7.

Ill., Paris—Edgar County, Brouillets Creek Township, defeated $15,000 bridge bonds.

Ill., Streator—City making plans for concrete bridge on Wasson St. F. H. Renz, City Engr.

Iowa, Logan—Harrison County making plans for rein.-con. bridge over Boyer River. About $21,000. J. M. Albertsen, Logan, County Audr.

Iowa, Rock Rapids—Bd. Supervs. Lyon County soon lets contracts for three 100-ft. steel span bridges, three 80-ft. spans, one 50-ft. span, one 60-ft. span and seven 32-ft. spans. W. Wyckoff, Rock Rapids, County Engr.

Iowa, Waterloo—(Official)—Illinois Central Railroad Co. does not plan bridge on Barclay St. A. S. Baldwin, Chicago, Ch. Engr. Noted Aug. 31.

Mont., Phillipsburg—Granite County receiving bids Sept. 25 for bridge over Hellgate River. Address County Clk., Phillipsburg.

Mo., Perryville—Perry County receiving bids Sept. 25 bridges. Address County Clk., Perryville.

Tex., Austin—City plans additional arch at bridge at 15th St. and Waller Creek, also at 16th St. About $10,000. H. Moseley, City Engr.

Tex., Gainesville—City making plans for toll bridge over Red River near Gainesville. About $50,000. S. J. Brazitton, City Engr. Noted Sept. 14.

Okla., Durant—Bryant County Comrs. soon to let contract for 16 steel bridges. About $80,000. Noted Sept. 7.

Okla., Guthrie—Logan County plans 408-ft. steel bridge over Cimmaron River, about $18,000. Address County Clk., Guthrie.

Wash., Burbank—Walla Walla County Comrs. voted $25,000 bonds for bridge over Snake River at Burbank. Address County Clk., Walla Walla. Noted July 27.

Wash., Spokane—City making plans for concrete bridge over south channel of Howard River. About $15,000.

Calif., Los Angeles—Santa Barbara County Supvrs. receiving bids Oct. 2 for Cat Canon bridge at Sisquoc. About $7,000.

Ont., Toronto—Toronto Harbor Comrs. 50 Bay St., Toronto, receiving bids Oct. 2 for steel bascule bridge over Cherry St. E. L. Cousins, 50 Bay St., Toronto, Ch. Engr. Noted June 29.

Bids In and Contracts Awarded

Maine, Brunswick—Lewiston, Augusta & Waterville St. Ry. let steel contract for rebuilding Androscoggin Bridge to UNITED CONSTRUCTION CO., Albany, about $30,000. Noted Apr. 27.

Maine, Wilton—Town let contract bridge over Holland Stream to CONCRETE SANDERS ENGINEERING CO., 192 Exchange St., Portland.

Conn., Woodbury—State Highway Comn., Hartford, let contract culvert and road to MASCETTI & HOLLEY, Torrington, about $4,318.

N. Y., Conklin—City let contract bridge to OWEGO CONCRETE CO., Owego, $5,500.

N. Y., Ft. Plain—(Official)—City let contract 85-ft. span rein.-con. arch bridge over Otsquago Creek to J. A. LAPORTE, Canajoharie, about $8,050. Noted Sept. 7.

N. Y., Herkimer—City let contract rein.-con. bridge over Maltanner Creek, Fairfield Township, to NEWPORT CONSTRUCTION CO., Herkimer, about $4,000.

N. Y., Petersburgh—City let contract bridge to M MURRAY & CO, INC., Troy, $90,664.

N. J., Mullica Hill—Philadelphia & Reading Ry. let contract bridge to CANTRELL CONSTRUCTION CO.

N. J., Trenton—(Official)—Mercer County let contract improving Bruers Bridge on Princeton and Lawrenceville Rd. to DEMPSEY & HARDY, Princeton. About $9,300. Noted Sept. 7.

W. Va., Berkeley Springs—Morgan County let contract bridge at Enon to LUTEN BRIDGE CO., $16,351; 1 across Heckenberry's Ford on Sleepy Creek, CONCRETE STEEL BRIDGE CO., $6,125. Noted Aug. 17.

W. Va., Everson—(Official)—Marion County let contract concrete bridge over West Fork near Everson to MERYDITH CONSTRUCTION CO., Marietta, Ohio. About $17,988. Noted Sept. 7.

Ohio, Hamilton—Butler County let contract bridges to A. P. SIMPSON CO., Middletown, about $8,972.

Ind., Warsaw—City let contract 2 bridges to E. DOTY, Milford; 5 to ELKHART BRIDGE CO., Elkhart. Noted Aug. 31.

Ill., Dallas City—Hancock County let contract 6 bridges and culverts to SEINES BROS., Dallas City.

Ill., Ottawa—La Salle County let contract Walbridge Bridge, Rutland Township, to O. QUINN, Marseilles.

Iowa, Marion—Lenn County let contract bridges to PERRY & JAYNE, $8,386, and A. PHELPS & SON, Knoxville, $4,200.

Mich., Burr Oak—City let contract bridge to ELKHART BRIDGE AND IRON CO., Elkhart, Ind About $5,875.

Minn., Austin—Mower County let contract 12 bridges to F. F. GERBISH, about $29,582.

Minn., Blue Earth—Faribault County let contract Bridges Nos. 2321, 2322, 2323 and 2324 to W. O'SHEA & SONS, 526 Ridgewood Ave., Minneapolis. Noted Aug. 24.

S. D., Brookings—Brookings County let contract bridge work to IOWA BRIDGE CO., Des Moines. Noted Aug. 24.

S. D., Oacoma—(Official)—County let contract repairing bridges to FEDERAL BRIDGE CO., Des Moines, $15,319. Noted Aug. 31.

S. D., Sioux Falls—Minnehaha County let contract bridge work to WESTERN BRIDGE AND CONTRACTING CO., Omaha, $9,706.

Ark., Searcy—County let contract bridge over Little Red River to W. D. ELLIS, Pangburn, about $5,000.

Man., Kettle Rapids—Dominion Government Department of Railways and Canals, let contract bridge over Hudson Bay Ry. to CANADIAN BRIDGE CO., Walkerville, Ont. About $350,000.

WATER-WORKS

Proposed Work

N. Y., Cohoes—(Official)—Bd. Contract and Supply receiving bids Oct. 2 for water meters. E. N. Amyot, Secy. Bd. (See adv.)

N. Y., Watervliet—(Official)—Water Bd., City Hall, receiving bids Sept. 25 for labor necessary to complete contract heretofore held by Lincoln Steele-Fleming Co. and J. A. Morrison, Assoc. for furnishing material and constructing Sect. of water supply, to include 8.5 mi. wood and c. pipe, 16- to 20-in. diam. with standpipe and appurtenances and completing one 15,000,000-gal. service reservoir. J. J. Ball, Pres. Solomon, Norcross & Keis, Watervliet Engr. (See adv. Sept 14 issue.)

N. J., Bernardsville—Bernards Water Co. plans to improve and extend system, about $100,000. I. Van Arsdale, Gen. Mgr.

N. J., Mt. Holly—J. Logan Co., Engr., retained to examine artesian water system at Seaside Heights and recommend means for increasing supply.

N. J., Newark—North Jersey Dist. Water Supply Comn. applied to State Dept. of Conservation and Development for permission to divert waters of Wanaque River to provide additional supply for Newark and Paterson.

N. J., Nutley—City making plans for water mains.

Penn., Philipsburg—(Official)—Morris Water Co. receiving bids Sept. 25 for 46,500-ft. 6-, 5-, 4- and 2-in. c.-i. and w.-i. main pipe and laterals and pumping station. Morris Knowles, 2541 Oliver Bldg., Pittsburgh, Consult. Engr. (See adv.)

Md., Bushwick—City plans improving water system. About $17,805.

Va., Monroe—Southern R.R. plans to extend water system at Monroe. B. Herman, Washington, D. C., Ch. Engr.

S. C., Camden—City voted $18,000 water bonds W. B. de Lorch, Comr. Pub. Wks.

Ga., Lithonia—City election Oct. 12 to vote on $35,000 bonds for water and sewer systems.

Fla., St. Cloud—Citizens voted $115,000 bonds for water and sewer systems. Noted Aug. 10.

Tenn., Rogersville—City plans to vote on $25,000 water bonds. Noted Mar. 9.

Ky., Irvine—City sold water bonds.

Ky., Preston—City to vote Nov. 7 on waterworks bonds.

Ohio, Akron—City plans to install new filter plant. H. H. Frost, Supt.

Ohio, Barberton—Bd. Pub. Ser. rejected bids for water meters. New bids soon.

Ohio, Cygnet—City votes in November on water-works. W. J. Sherman Co., The Nasby, Toledo, Engr.

Ohio, Defiance—Citizens voted $125,000 bonds for purchase of water system. C. C. Kuhn, Supt. Noted Aug. 10.

Ohio, Sandusky—City plans water main in Curran St. N. Cronemett, Supt.

Ohio, Troy—Council plans to spend about $10,000 for water meters. L. A. Pool, Supt.

Ohio, Wadsworth—City plans new filter plant. F. J. Porter, Supt.

Ohio, Wooster—City to vote on $80,000 water bonds. Noted June 22.

Ohio, Youngstown—(Official)—City receiving bids Oct. 9 for extending water system. J. P. Edwards, Audr. J. S. Lewis, Supt. Noted Aug. 31.

Ind., Jasper—City sold $9,000 water bonds. P. J. Kunkel, Supt.

Ill., Albion—City plans water system.

Ill., Fisher—Village making plans for water system. J. E. Pickens, Kankakee, Engr. Noted Aug. 24.

Ill., Galesburg—City Council plans to extend water mains on West Berrien, 4th and various other streets.

Ill., Kewanee—City made plans for new reservoir. C. F. Ingham, Asst. Supt.

Ill., Staunton—City soon receives bids for about 1½ mi. of 6- and 8-in. water mains, $15,000. C. Schneers, Supt. Noted Sept. 14.

Wis., Fond du Lac—City receiving bids Sept. 25 for water mains. J. F. Hohensee, City Clk.

Wis., Janesville—City plans extending water mains on North Chatham and Chestnut St.

Wis., Menominee—City plans to install 2 electrically operated pumps of 1,500,000 gal. and 2,500,000 gal. capacity respectively at waterworks. F. Stewart, City Clk.

Iowa, Corning—City voted $30,000 water bonds Noted May 11.

Iowa, Rolfe—City receiving bids Oct. 1 for 25,000-gal. tank.

Minn., Kenyon—City receiving bids Oct. 13 for improving water system. O. B. Strand, Engr.

Minn., Westbrook—Citizens defeated $10,000 water-works bonds.

Minn., West St. Paul—City soon to let contract for water system. About $40,000. J. F. Druar, Consult. Engr. Noted Sept. 14.

Kan., Hillsboro—City making plans for water system. E. E. Harper, 2404 East 30th St., Kansas City, Mo., Engr.

Kan., Tonganoxie—City election Oct. 2 to vote on $40,000 water-works bonds. Black & Veatch Inter-State Bldg., Kansas City, Mo., Engr. Noted Mar. 2.

Neb., Falls City—Water Dept. soon lets contract drilling two 24-in. wells. About $10,000

Water-Works (Continued)

Neb., Page—Citizens voted bonds for water system.

N. D., Grand Forks—City soon to vote on $25,000 bonds for filter plant. J. J. Smith, Supt.

Wyo., Worland—City voted $25,000 bonds for improving water system.

Mont., Billings—City plans filtration plant at water-works plant. About $17,500.

Mont., Joliet—Citizens voted $22,000 water-works bonds.

Mo., Carthage—City defeated $7,000 water bonds.

Mo., Webb City—City defeated $7,000 water bonds. Noted Feb. 10.

Mo., Lebanon—(Official)—City voted $6,000 water bonds.

Mo., Marshfield—(Official)—City will not vote on $6,000 water bonds as noted in issue of Aug. 31.

Mo., St. Louis—E. E. Wall, Water Comr., will ask Bd. Estimate and Appropriation to appropriate $220,000 to cover reservoirs in vicinity of Merchants' Bridge approach.

Ark., Arkansas City—City plans improving water-works. R. W. Smith, Gen. Mgr.

Ark., Ashdown—City plans water-works. Address City Clk.

Ark., Beebe—City plans water-works. Address City Clk.

Ark., Benton—City plans water-works. B. F. Heny, City Engr.

Tex., Beaumont—(Official)—J. E. Turner, Beaumont, Secy., South Park School Dist., Jefferson County, receiving bids Sept. 28 for 7,050 ft. water mains. A. E. Freel, Box 1075, Beaumont, Engr. (See adv.)

Tex., Beaumont—City voted $100,000 water-works bonds. C. L. Scherer, City Engr. Noted Aug. 17.

Tex., Hamlin—City Council plans water and distributing system. O. M. Smith, Supt.

Tex., Kingsville—City purchased local water plant and will improve same. About $30,000.

Tex., Terrell—City making plans for water system. Noted May 18.

Okla., Beggs—City plans water system.

Okla., Norman—City plans expenditure $4,000 for water mains.

Okla., Shawnee—City making plans for water system, about $12,500. E. L. Moon, Supt. Noted July 20.

Okla., Vinita—Missouri, Kansas & Texas Ry. plans storage reservoir, about $50,000. L. F. Lennbladh, Dallas, Ch. Engr.

Okla., Woodward—City voted $12,500 water improvement bonds. F. H. Kilburn, Supt. Noted Aug. 3.

Utah, Ephrian—City election Sept. 26 to vote on $15,000 water-works bonds. F. Y. Jensen, Supt.

Ark., Pocahontas—Comrs. Water-Works Improvement Dist. No. 1 receiving bids Oct. 4 for water system. G. A. Sage, Mayor. Noted May 18.

Ore., McMinnville—City to vote in November on $90,000 water bonds.

Que., St. Alexis des Monts—Municipal Council plans water system.

Ont., Galt—City plans extending water system.

Ont., Kitchener—Provincial Bd. of Health approved plans for water system. About $100,000.

Ont., Renfrew—Council plans improving water system.

Ont., York—City making plans for extending water system. About $100,000.

Bids In and Contracts Awarded

Maine, Waterville—(Official)—Kennebec Water Dist. let contract reservoir in Waterville and Fairfield to JAMES H. KERR, Rumford. About $46,346. Noted Sept. 14.

Mass., Boston—City rejected bids received Sept. 5 for simplex compound elevator pump. R. A. Lynch, Supt.

Conn., Hartford—Water Bd. rejected bids for about 22,500-ft. c.-i. pipe from 6- to 11-in. W. G. Aubrey, Supt. Noted Aug. 3.

N. Y., Bath—City let contract water main between Twin Bridges and Bath to BESSIDERIO & SATTLER, Rochester. About $9,614.

N. Y., Mt. Morris—City let contract 2 mi. water mains to McCARTHY & WALL, Mt. Morris, $9,059. Noted Aug. 10.

Del., Wilmington—Bd. Water Comrs. received low bids for turbine driven centrifugal pumps and accessories from Alberger-Pump and Condenser Co., 140 Cedar St., New York; Dravo-Doyle Co., Philadelphia; R. D. Wood, Philadelphia. Noted Aug. 10.

N. C., Hickory—City let contract 8,000-ft. water main on 6th, 12th and 5th Ave. to W. R. HART. Noted Apr. 13.

Mich., Ann Arbor—(Official)—Bids received for bridge over Huron River on Broadway from A. H. Prange, Grand Rapids, $54,867, and Chandler Dock and Dredge Co., Detroit, $57,118. Noted July 27.

Ill., Normal—City let contract well and septic tank to AMERICAN WELL WORKS, 112 North Broadway, Aurora, about $22,000. Noted July 6.

Wis., Hudson—City let contract artesian well to J. F. McCARTY.

Iowa., Marion—(Official)—City let contract improving old filter plant and installing new one to PERCY SMITH, Cedar Rapids.

Iowa, Odebolt—City let contract water system to DES MOINES BRIDGE AND IRON WORKS, Des Moines, $13,500. Noted Aug. 3.

Minn., Crystal Falls—City let contract water pipe to OLSON & JOHNSON.

Minn., Staples—City rejected bids for 200,000-gal. rein.-con. reservoir. Noted Sept. 7.

Neb., Tilden—City let contract extending water system to NORFOLK BRIDGE AND CONSTRUCTION CO., $6,394. Noted Apr. 27.

Wash., Seattle—City let contract 1 mi. water main on 12th Ave. to PACIFIC LOCK JOINT PIPE CO., $54,500.

Ore., Astoria—Astoria Water Comn. received low bid for new main in east end of city from Louis F. Kline, Portland. About $40,000. Noted Sept. 14.

SEWERS

Proposed Work

Mass., Agawam—A. J. MacLaughlin, Dir. Pub. Health Dept., Boston, approved plans for sewer system.

Mass., Boston—City soon receives bids for extending Strandway sewer system. About $180,000. E. F. Murphy, Comr. Pub. Wks.

Mass., Needham—Metropolitan Water and Sewerage Bd., Boston, receiving bids Sept. 27 for concrete sewers, Sect. 102 of High-Level Sewer, Wellesley Extension.

Conn., Bridgeport—City soon receives bids for sewage-disposal plant. A. H. Terry, City Engr.

Conn., South Beach—City making plans for sewer system in Dist. No. 1. Clyde Potts, 30 Church St., New York, Engr. W. W. Beaton, Chn. Bd. Sewer Comrs.

N. Y., Buffalo—City Council plans $42,000 bond issue for sewers in Albany St. G. H. Norton, City Engr.

N. Y., Carthage—City plans extending sewer system and building disposal plant.

N. J., New Brunswick—(Official)—City receiving bids Sept. 26 for storm water sewers in Commercial Ave. Asher Atkinson, City Engr. Noted Sept. 14.

Penn., Coatesville—City Council making plans for sewer system. A. Potter, 50 Church St., New York, Engr. W. Harry, City Engr.

Penn., Lebannon—City votes in November on $230,000 bonds for improving sewer system. P. L. Volcker, City Engr.

Penn., Williamsport—(Official)—City receiving bids about Oct. 1 for 31 sewers. About $55,000. John B. Otto, City Engr. Noted Aug. 31.

Md., Highlandtown—Baltimore County Comrs. plan 2 intercepting storm water drains in Highlandtown. About $10,000. W. G. Sucro, Towson, County Rd. Engr.

Va., Norfolk—City plans sewers. About $10,000. W H. Taylor, Engr. W. E. Stead, City Clk.

W. Va., Charleston—City receiving bids Sept. 28 for sewer in portion Pennsylvania Ave. J. M. Clark, City Engr.

N. C., Belhaven—City to vote on $60,000 bonds for sewer, water and electric-light systems.

Ga., Lithonia—See item under "Water-Works."

Fla., St. Cloud—See item under "Water-Works."

Fla., St. Cloud—City voted $21,000 bonds for sanitary sewers and disposal plant. F. B. Kenney, City Clk. Noted Aug. 3.

Ala., Montgomery—City votes Oct. 17 on $25,000 bonds for extending sanitary sewer system. S. E. Washburn, City Engr.

Ohio, East Palestine—City receives bids Oct. 2 for purchase of $46,500 sewer bonds. O. L. Butts, Clk.

Ohio, Port Clinton—City receiving bids Oct. 12 for sewers in Washington St. W. H. Williamsen, Clk.

Ill., Canton—City plans 10-in. sewer in East Walnut St. A. W. Buckner, City Engr.

Ill., Madison—City soon receives bids for sewer system and pumping plant. About $170,000. Sheppard & Morgan, Edwardsville Bank Bldg., Edwardsville, Iowa, Engr.-in-charge.

Wis., Portage—(Official)—City receiving bids Sept. 25 for storm sewer. H. B. Tennant, City Engr. Noted June 29.

Iowa, Alton—City made plans for sewer system. About $18,000. Noted Aug. 3.

Iowa, Anthon—(Official)—City lets contract Oct. 3 for sanitary sewers, septic tank and filters. About $20,000. L. L. Lucas, Clk. Noted Sept. 7.

Iowa, Germania—City soon receives bids for sewer system and disposal plant. M. A. Stoddart, Germania, Engr. Noted May 25.

Iowa, Primghar—Town plans sewer and disposal systems. A. Stewart, Town Clk.

Minn., Dawson—City voted $25,000 bonds for sewers. J. C. Hanson, City Clk. F. D. Minium, New Ulm, and F. W. Schreiber, Watertown, S. D., Engrs. Noted Sept. 14.

Minn., West Minneapolis—(Minneapolis post office)—City receiving bids in October for extending sewers. E. A. Close, Clk. J. F. Druar, 311 Commercial Bldg., St. Paul, Consult. Engr. Noted Aug. 24.

Neb., Kearney—City votes Sept. 25 on $50,000 bonds for sewers. J. N. Hartzell, City Clk. Noted Aug. 31.

Neb., Randolph—City soon votes on $5,000 bonds for sewer system. Noted Sept. 7.

S. D., Madison—City receiving bids Sept. 28 for sewers in Egan Ave. and 7th St. W. Rae, City Clk.

N. D., Mohall—City receiving bids Sept. 26 for sewer system. T. Syverson, City Audr. Noted May 25.

Mo., Sedalia—City soon lets contract for sewage-disposal plant. About $65,000. F. T. Leaming, City Engr. Noted Aug. 31.

Tex., Bryan—City votes Nov. 14 on $10,000 sewage disposal plant bonds.

Okla., Commerce—City soon votes on $30,000 bonds for sewers system.

Colo, Castle Rock—City plans sanitary sewer system.

Que., Lambert—City plans sewer in Front St. H. A. Gibeau, Town Engr.

Ont., Brussels—Town Council plans extending sewer in Turnberry St. F. S. Scott, Town Clk.

Ont., Hamilton—City plans sewer in Kenilworth St., about $56,000, and Kent St., about $12,000. E. R. Gray, City Engr.

Bids In and Contracts Awarded

Conn., New Haven—City let contract sewer and appurtenances in portion Porter St. to T. F. MAHER, 883 Orange St.

Conn., Wallingford—City let contract sewer in Curtiss Ave. to G. LUBY, Wallingford.

N. Y., Cooperstown—City will build extension to sewer system by day labor. K. Root, Clk.

N. Y., New York—(Brooklyn)—(Official)—Borough Pres. received bids sewer in portion Duryea Pl. from B. Peconi & Son, 544 18th St., 114%; E. Gilhardi Contracting Co., 118.89%; Albert F. Koch, 128.5%.

N. Y., Utica—City let contract sewers in Wheeler Ave., Thorn, Sophia, York and Pleasant St. to F. M. JOHNSTON, $13,351. Noted Sept. 14.

Penn., Reading—City received bids for sewer in Penn St. from J. E. Weldner, $2.12 per lin.ft., and Wehr & O'Rourke, $2.26. E. Ulrick, City Engr.

Ohio, Cincinnati—City let contract sewer in ravine from Hyde Park subdivision to Duck Creek intercepter to T. MALONEY, $9,990.

Ohio, Dayton—City let contract sanitary sewers in Dist. No. 6 to C. J. WETZEL, 309 West Buren St. About $35,000. Noted Sept. 7.

Ohio, Middletown—(Official)—City received low bids for storm and sanitary sewers from Arpp-Simpson Co., Berry Bros. and C. H. Martin. Noted Sept. 7.

Ohio, Toledo—City let contract sanitary sewer No. 28 in Main Sewer Dist. No. 4 to J. N. BICK CO., $140,000. Noted Aug. 24.

Ind., East Chicago—City let contract sewers to SHEA & CO., 371 Logan St., Hammond. Noted Aug. 31.

Ind., Michigan City—City let contract Poplar Man Tremont St. drain to R. W. SCHOFIELD, and sewer in McClellan Ave. to P. MICHAEL.

Ind., North Vernon—City let contract sanitary sewer in Madison Ave. to H. HICKS. Noted Aug. 24.

Ind., South Bend—City let contract sewers in Miami and Francis St. to L. H. WEBSTER, 214 West Bronson St.

Ill., Chicago—(Official)—City received low bids for intercepting sewer system from Nash-Dowdle Co., 29 South La Salle St., Chicago, $841,630 for concrete alternative, $904,347 for brick alternative; Bryne Bros. Dredging and Engineering Co., 208 South La Salle St., Chicago, $1,365,444 for segmental block alternative, $1,382,142 for rein.-con. pipe alternative. I. Brower, City Engr.

Ill., Elmhurst—(Official)—Bd. Local Improvements let contract sewer work to HENRY REES, Quincy. About $95,571. Noted Aug. 3.

Ill., St. Charles—(Official)—Bd. Local Impvt. let contract sanitary sewer District No. 2 to H. D. HALLETT, Aurora, $12,905. Noted Sept. 7.

Ill., Winnetka—City let contract Cherry St. storm water sewer system to C. T. BARTLETT, 827 Greenleaf Ave., Evanston. About $64,000. Noted Sept. 14.

Wis., Clinton—City let contract sewers and disposal plant to BROGEN & BURNS, Green Bay, $18,437.

Wis., Green Bay—City let contract sewers in 13th Ave. to C. P. FLATLEY, and in Willow St. to H. O. SCHAEFFER.

Wis., Kenosha—City received low bid various sewers from Peter Frandsen, Kenosha, $64,316.

Wis., Waupun—G. W. Muhlholland, Kaukauna, $23,211, submitted lowest bid for sewers.

Iowa, Anamosa—City let contract sewers to E. W. HARRISON & SON. C. V. Fisher, City Clk.

Iowa, Waterloo—City let contract sewers to MOOR-SEIG CONSTRUCTION CO., Waterloo.

Sewers (Continued)

Minn., Kasson—City let contract extending sewer system to J. J. CONNOLLY, 1007 Reaney St., St. Paul, $5,740. Noted Aug. 10.

Kan., Downs—City let contract sewer system and disposal plant to GORDON & TAYLOR CONSTRUCTION CO., Denver, Colo., $17,617. Noted Aug. 31.

Neb., Beatrice—Inter-Mountain Bridge and Construction Co., Tecumseh, $5,876, submitted lowest bid for sewer in Dist. No. 22.

S. D., Brookings—(Official)—City let contract sanitary sewers to J. H. ROBERTS, Brooklings, $5,000. Noted Aug. 31.

N. D., Glenburn—City let contract sewer to G. KEMPER, Minot.

Tex., Marlin—City let contract sewers to H. W. CARDWELL CONSTRUCTION CO., Texarkana, $22,776, disposal plant to McCALL-MOORE ENGINEERING CO., Waco, $14,246. Noted Aug. 24.

Tex., San Antonio—City let contract sanitary sewers in Rutz St. to YOUNG & RAMSEY.

Calif., Fresno—City let contract sewer in Paige Tract to E. W. REDMAN, 164 Silvia St.

Calif., Fresno—(Official)—City let contract storm and sanitary sewer system to COAST CONSTRUCTION CO., Los Angeles, $332,041. Noted Aug. 3.

GARBAGE

Proposed Work

Penn., Altoona—Monongahela Smelting Co. submitted proposition to City Council for handling city's garbage. Company may arrange incinerator plant, about $50,000. J. W. Shields, City Engr. Noted Mar. 23.

Penn., Oil City—Oil City Garbage Co. and P. J. Connelly submitted bids to city for leasing garbage-disposal plant and collecting garbage. B. B. Weber, City Engr.

Bids In and Contracts Awarded

Mo., Springfield—City let contracts of collection of garbage from old Gulf tracks and north side of Elm St. and from Jefferson St. to city limits to J. B. MORLEY and from Summit Ave. to Frisco right-of-way to A. O. RAY.

STREETS AND ROADS

Proposed Work

Vt., Burlington—City plans improving Main St. F. O. Sinclair, City Engr.

R. I., Pawtucket—City appropriated $8,292 for improving portion Dexter St. A. Carpenter, City Engr.

R. I., Woonsocket—City plans grading Laval, Victor, Richelieu and Lafayette St. F. H. Mills, City Engr.

N. Y., Fulton—Council appropriated $7,146 for paving.

N. Y., New York—(Bronx)—(Official)—F. J. H. Kracke, Comr. Plant and Structures, Municipal Bldg., Manhattan, receiving bids Sept. 25 for repaving approaches of City Island Bridge over Pelham Bay Narrows.

N. Y., New York—(Bronx)—(Official)—Park Bd., Municipal Bldg., Manhattan, receiving bids Sept. 28 for concrete sidewalks on portion 177th St., Bronx. Cabot Ward, Pres. Park Comrs.

N. Y., New York—(Brooklyn)—(Official)—L. H. Pounds, Borough Pres., receiving bids Sept. 28 for repaving portion 30th St.; furnishing 80,000-gal. liquid refined asphalt; furnishing 1,000 cu.yd. binder, stone.

N. Y., New York—(Brooklyn)—(Official)—Park Bd., Municipal Bldg., Manhattan, receiving bids Sept. 28 for resurfacing portion Bay Parkway. Cabot Ward, Pres., Park Bd. Noted Aug. 31.

N. Y., New York—(Manhattan)—(Official)—F. J. H. Kracke, Comr. Plant and Structures, Municipal Bldg., Manhattan, receiving bids Sept. 28 for repaving south roadway of Williamsburg Bridge.

N. J., Belvidere—(Official)—Bd. Chosen Freeholders Warren County receiving bids Oct. 10 for 4.124 mi. bituminous macadam road, Hope-Bridgeville Rd., Sect. No. 1. F. W. Salmon, Netcong, County Engr. Morris L. Faust, Clk. Bd. (See adv.)

N. J., Elizabeth—City Council to issue $45,000 street improvement bonds. T. E. Collins, City Engr.

N. J., Glen Ridge—City receiving bids Sept. 25 for $55,000 paving bonds. John A. Brown, Clk.

N. J., Hohokus—Borough Council plans grading and macadamizing 5 streets. About $19,300.

N. J., Morristown—Bd. Freeholders Morris County sold $559,000 road bonds. Address Clk., Morristown.

N. J., Mt. Holly—Bd. Chosen Freeholders authorized survey for change in alignment on present improved road, from Bordentown to Trenton, about $6,000; also Camden Pike, from Moorestown to Camden County line, about $35,000. James Logan, Engr.

N. J., Newark—Bd. Street and Water Comrs. receiving bids Sept. 28 for paving portion Porter and Stengel Ave., bitulithic. M. R. Sherrard, City Engr. Noted Sept. 14.

N. J., Newark—Council passed ordinance to improve portion High St., granite and wood block pavement. M. R. Sherrard, City Engr.

N. J., New Brunswick—City plans paving Stratford Pl., concrete. A. Atkinson, City Engr.

N. J., Newton—Sussex County to vote on $12,000 bonds to extend concrete road on Spring St. Address County Clk., Newton.

N. J., Newton—Town plans to spend about $12,000 for paving Spring St., concrete.

N. J., Passaic—City plans improving portion Van Houten Ave. and regrading between Richards St. and city limit. C. R. Wise, City Engr.

N. J., Ridgefield Park—Bd. Comrs., Municipal Bldg., 234 Hackensack Rd., receiving bids Sept. 26 for improving portion Gordon St. M. D. Starker, Village Clk.

N. J., Ridgefield Park—Bd. Comrs., Municipal Bldg., 234 Hackensack Rd., Ridgefield Park, receiving bids Sept. 26 for improving Grove St. M. D. Starker, Village Clk.

N. J., Trenton—City plans improving 1 mi. South Broad St. J. R. Fell, Jr., City Engr.

N. J., Trenton—City plans expenditure of $40,000 to extend Passaic St. across Delaware and Raritan Canal. J. R. Fell, Jr., City Engr.

Penn., Arnold—Borough plans to grade and curb 15th, 16th and 17th St., about $5,000. B. S. Dinsmore, New Kensington, Engr.

Penn., Bryn Mawr—Montgomery County plans bond issue for road improvements in Radnor Township. W. S. Ellis, Norristown, interested.

Penn., Dormont—Borough plans to improve portions Pinehurst, Raleigh and Hillsdale Ave. and Anderson Way. R. Swan, City Engr.

Penn., Ferndale—Borough Council to receive bids in October for improving portion Henry St. and Glenwood Ave. Noted Aug. 24.

Penn., Harrisburg—State Highway Dept. soon receives bids for 6 mi. brick paving on Johnstown and Ebensburg Rds., about $150,000. C. L. Lemon, Hollidaysburg, Engr.

Penn., Mt. Carmel—Borough plans to pave about 4 blocks, brick and concrete, about $25,000. W. W. Robertson, Engr.

Penn., Pittsburgh—Council plans paving portions Broadway, about $50,000; Wenzel Way, $30,000; Westfield St., $28,000. Robert Swan, Dir. Pub. Ser.

Penn., Somerset—Somerset County Comrs. plan improving ½ mi. road at Bakersville. About $25,000.

Penn., Wilkes-Barre—City passed ordinance for improving Howard and East Broadway St. B. K. Finch, City Engr.

Del., New Castle—City to issue $145,000 bonds for improving main streets.

Md., Baltimore—(Official)—State Rd. Comn., 601 Garrett Bldg., receiving bids Sept. 26, Contract No. A. A. 11, Anne Arundel County, one section highway along Light St. Rd. from Glenburnie to near Benfield, about 2 mi., concrete or macadam; Contract B-26, Baltimore County, one section along Liberty Rd. from Harrisonville to Old Court Rd., about 3.33 mi., macadam or concrete; Contract D-10A-. Dorchester County. ine section along Big Mill to Linkwood Rd., about 0.20 mi. including 1 double 15-ft. rein-con. bridge. (See adv.)

Md., Baltimore—(Official)—State Rd. Comn., 601 Garrett Bldg., receiving bids Sept. 26 one 90-ft. rein.-con. arch bridge over Western Run along York Rd., Contract B-21-Br., Baltimore County and one section road from end of Showell Rd. north toward Selbyville for distance of 5 mi., concrete or macadam, oil bound. Contract No. WO-13, Worcester County. F. H. Zouck, Chn. (See adv.)

Md., Baltimore—(Official)—Bd. Awards, City Hall, receiving bids Sept. 27 for paving portions Lexington and Etting St., asphalt, vitrified or wood block, Contract No. 140; also portion Gay St., asphalt, vitrified or granite block, Contract No. 141. J. Hubert, Act. Pres. Bd. Awards. (See adv., Sept. 14 issue.)

Va., Covington—Alleghany County voted $100,000 bonds for roads in Covington Dist. Address County Clk., Covington.

W. Va., Charleston—Kanawha County, Loudon Dist., voted $90,000 road bonds. L. C. Massey, Charleston, Clk. County Court.

W. Va., Lewisburg—Greenbrier County election Oct. 7 to vote on $103,000 road improvement bonds. Address County Clk., Lewisburg. Noted Aug. 17.

W. Va., Winfield—Putnam County, Poca Dist., voted $90,000 road bonds. Address County Clk., Winfield.

N. C., Asheville—City plans to improve 28 streets. B. M. Lee, City Engr.

N. C., High Point—City receiving bids Sept. 28 for 40,000 sq.yd. and alternate bids on 100,000 sq.yd. paving, asphalt, concrete, brick or block. A. Lyon, City Engr. Anderson & Christie, Charlotte, Consult. Engr. Noted Aug. 31.

N. C., Lenoir—L. P. Henkel Statesville, and associates, plans road between Lenoir and Blowing Rock, about 22 mi., $150,000.

N. C., Morganton—Bruce County election Oct. 14 to vote on $20,000 bonds for roads in Quaker Meadow Township. Address County Clk., Morganton.

N. C., Warrentown—Warren County Comrs. voted $40,000 road bonds.

N. C., Winston Salem—Forsyth County Highway Comn. soon lets contract for road from Salisbury Rd. to south end of Broad St. Address County Clk., Winston-Salem.

S. C., Greenville—(Official)—City election Sept. 26 to vote on $65,000 street paving bonds. W. F. B. Haynsworth, City Engr. Noted July 20.

Ga., Macon—City plans to repave Mulberry and 3rd St.

Fla., Miami—City plans to pave number of streets, asphaltic concrete or macadam.

Fla., St. Cloud—City voted $15,000 bonds for improving portions New York and Pennsylvania Ave. and 10th and 11th St. Noted July 27.

Ala., Athens—Limestone County Comrs., Athens, appropriated $8,000 for improving Jackson Highway from Athens to Decatur.

Miss., Coffeeville—Yalabusha County voted $100,000 road bonds. Address County Clk., Coffeeville.

Miss., Grenada—Grenada County receiving bids Oct. 2 for 50 mi. sand clay roads to be part of Jefferson Davis Highway. M. E. Powell, Grenada, Clk. Snowden & Hauser, Columbus, Engr. Noted Sept. 7.

Miss., Oxford—Comrs. South Yocona Rd. Dist., Lafayette County, plan 6-mi. road. Address County Clk., Oxford.

Tenn., Nashville—City plans improving Union St. W. W. Southgate, City Engr.

Ky., Henderson—City Council plans river front boulevard from 5th St. through Atkinson Park, about 2 mi. W. Hopkins, City Engr.

Ky., Maysville—City plans to improve 4th and West 3rd St., brick.

Ky., Owensboro—Council rejected bids for improving 2 streets. New bids. H. M. Talboth, City Engr.

Ohio, Akron—Summit County making plans for improving Stow-Tallmadge Rd., Sect. 1. U. G. High, Akron, County Clk.

Ohio, Bellaire—Council receiving bids for improving portion Hamilton St. A. J. Norton, City Engr. Noted June 29.

Ohio, Bowling Green—City receiving bids Sept. 23 for paving portion Court St. J. E. Baird, Ser. Dir.

Ohio, Cincinnati—City approved estimates for improving portion Ludlow Ave. and Erie Canal. Granite and bitulithic about $200,845; granite about $219,394.

Ohio, Cincinnati—City plans paving portion Dewey, Maple Leaf Ave. and Dayton St. F. Krug, City Engr.

Ohio, Cleveland—City receiving bids Sept. 28 for improving portion Hough Ave. Robert Hoffman, City Engr.

Ohio, Cleveland—Cuyahoga County Comrs. plan improving portion Harvard Rd. E. G. Krause, Cleveland, Clk.

Ohio, Cleveland—City plans paving West 105th, Bertha, Heber, Spokane, Buckeye and Jefferson St. Robert Hoffman, City Engr.

Ohio, Cleveland Heights—(Warrensville post office)—City receiving bids Oct. 16 for improving portion Lancashire Rd. N. H. Canfield, Clk.

Ohio, Columbus—Franklin County Comrs. receiving bids Oct. 16 for improving Bay Rd. in Pleasant Township. Address County Clk., Columbus.

Ohio, Columbus—(Official)—Franklin County receiving bids Sept. 25 for brick and bituminous road between rails of Ohio Electric Railroad Co. along center line of Mason Rd. Improvement, Bexley Village and Marion Township. J. Scott, Columbus, Clk. Bd. John Peake, County Engr.

Ohio, Columbus—Franklin County receiving bids Sept. 29 for 2,600 sq.yd. macadam paving. J. Scott, Columbus, Clk.

Ohio, East Liverpool—(Official)—City rejected bids for improving portion Lisbon St. Will readvertise. J. C. Kelley, City Engr. Noted Aug. 31.

Ohio, Hubbard—Village receiving bids Sept. 25 for improving portion Mill St. J. W. Powres, Clk. Noted Aug. 31.

Ohio, Lima—City soon lets contract for paving Robb and Fairview Ave. J. I. Heffner, City Clk. Noted Aug. 10.

Ohio, Lorain—(Official)—City receives bids about December for paving East and West 23rd St., brick or asphalt, about $25,000. C. M. Osborne, City Engr. Noted Aug. 31.

Ohio, Port Clinton—Village receiving bids Oct. 3 for improving Monroe St. and West Market Space. William H. Williamson, Clk.

Ohio, Santoy—(Official)—Village receiving bids Sept. 30 for street improvements. F. Ansel, Clk.

Ohio, Tiffin—City receiving bids Sept. 30 for improving portion St. Clair St. Noted Aug. 10.

Ohio, Tiffin—City receiving bids Sept. 30 for repaving North Washington St. Noted Aug. 24.

Ohio, Waterville—City plans paving Pearl St.

Ohio, Xenia—(Official)—City plans paving Eaton Ave., Galaway, Church St. and Home Ave. with sheet asphalt. E. R. Logan, City Clk.

Ohio, Youngstown—City received no bids for grading portion Stambaugh Ave. Noted Aug. 31.

Streets and Roads (Continued)

Mich., Petosky—City plans paving Liberty, Petosky, State, Michigan, Division St. and Williams Bay.

Ill., Carterville—(Official)—City receiving bids Sept. 25 for concrete paving. About $33,484. B. P. Wilson, Marion, Engr. Noted Sept. 7.

Iowa, Sioux City—City to let contract for repaving 4th, 5th, 6th, Douglas, Pearl, Nebraska and Pierce St. in spring. T. H. Johnson, City Engr. Noted Apr. 27.

Minn., Anoka—City receiving bids Sept. 25 for improving Main St. Henry Lee, City Clk.

Minn., Duluth—City Comrs. authorized improving St. Marie St. L. Ayers, City Engr.

Minn., Hastings—City sold $50,000 paving bonds. W. H. Duller, City Engr.

Minn., Minneapolis—City plans paving 15-mi. arterial streets. About $500,000. F. W. Cappelin, City Engr.

Kan., Independence—City passed ordinance for improving portion West Locust St.

Kan., Leavenworth—City soon to let contract for paving Broadway with tar macadam. H. A. Perkins, City Engr. Noted May 11.

Neb., Norfolk—City plans paving 40 blocks. H. H. Tracy, City Engr.

Neb., Omaha—Douglas County plans 2 mi. brick road from east end Locust St. viaduct to Carter Lake Club grounds. About $20,000. Address County Clk., Omaha.

Mont., Great Falls—City Council plans grading Central Ave., about $10,635; improving 3d Ave., about $11,500. L. B. Evenson, City Engr.

Mo., Hannibal—Council passed resolutions for paving portions Main, Bird, Market and 6th St. B. F. Smiley, City Engr.

Ark., Little Rock—City plans asphalt macadam pavements, cement sidewalks and curbing 52 blocks in Hillcrest. Henry Levinson, City Engr.

Ark., Van Buren—City soon to receive bids for 33,000 yd. paving in Paving Dist. No. 3. Noted June 29.

Okla., Oklahoma—City passed resolution to pave Lincoln Blvd., Park Pl. and Durland Ave. C. V. McClure, City Engr.

Wash., Aberdeen—City plans improving West Blvd. About $10,882. Louis Kelsey, City Engr.

Calif., Martinez—Contra Costa County plans to pave roads. Address County Clk., Martinez.

Calif., Pomona—City to vote in November on road bonds.

Calif., Sacramento—City election Oct. 3 to vote on $1,700,000 bonds for road work. F. C. Miller, City Engr. Noted July 6.

Calif., Santa Ana—Bd. Supervs. receiving bids Oct. 4 for paving 1 mi. Myford Rd., concrete. W. B. Williams, Santa Ana, County Clk.

Calif., Yreka—Bd. Superv. Siskiyou County plans to spend about $5 000 for improving highway from Trinity Center to Callahan. Address Clk., Yreka.

N. B., Sackville—Council voted $5,000 bonds for sidewalks. Noted July 20.

Que., La Salle—Town receiving bids Oct. 13 for about 5 mi. macadam or concrete roadway. F. La Fleur, Secy. Beique & Charton, Room 513 Transportation Bldg., Montreal, Consult. Engr.

Ont., Highgate—Town plans to grade and curb King. St. F. Littlejohns, Clk.

Ont., Preston—Town Council plans paving portion Main St. H. C. Edgar, Town Clk.

Ont., St. Catherines—City plans paving Glen Ridge, Henrietta, Thomas, Bresery St., and Westchester Ave. W. P. Near, City Engr.

Ont., St. Catherines—Pub. Wks. Comn. recommended concrete sidewalks. W. P. Near, City Engr.

Bids In and Contracts Awarded

Maine, Augusta—City let contract improving portion Main St. to HASSAM PAVING CO., Worcester.

Mass., Ashburnham—Massachusetts Highway Comn., Boston, let contract gravel road in Ashburnham to B. E. SAVAGE, 30 Dewey St., Worcester, $8,829.

Mass., Boston—City rejected bids for paving streets in Brighton, Dorchester, East Boston and West Roxbury Dists. Noted Sept. 7.

Mass., Falmouth—State Highway Comn., Boston, let contract highways to CENTRAL CONSTRUCTION CO., 228 Southampton St., Roxbury, about $13,000.

Mass., Walpole—City let contract improving Main St. to M. DE MATTEO, 146 Dudley Ave., Roslindale, $4,349. Noted Aug. 3

Mass., Marlboro—City let contract paving portions Main and Broad St. to SIMPSON BROS. CO., 166 Devonshire St., Boston. Noted July 27.

Mass., Taunton—Com. of Sts. and Bridges let contract paving portion Weir St. to SIMPSON BROS. CORPORATION, 166 Devonshire St., Boston.

Conn., Beacon Falls—State Highway Comn., Hartford, let contract gravel road to J. ARBORIO, 36 Ward St., New Haven, about $8,000.

Conn., Montville—State Highway Comn. let contract macadam road to F. A. WILCOX, Winsted, about $8,320.

N. Y., Albany—(Official)—State Highway Comn., 55 Lancaster St., received low bids Sept. 18 for constructing and repairing highways in various counties as follows: Road No. 1449, Maine-Glen Aubrey, Broome County, 5.35 mi.: No bids. Road No. 1450, Castle Creek-Whitney Point, Broome County, 6.93 mi.: No bids. Road No. 5623, Oxford-Soldiers' Home, Chenango County, 1.30 mi.: A. B. Haight, Oxford, $21,329; Paddelford & King, Sherburne, $22,180; H. S. Schauff, Guilderland, $22,360. Road No. 763 Hollowville-Craryville, Columbia County, 7.14 mi.: No bids. Road No. 1439, Sidney-Masonville Delaware County, 6.51 mi.: Hovey E. Benedict, Williamsport, Penn., $89,961; Edward B. Abrogast, Stroudsburg, Penn., $90,504. Road No. 1445, East Aurora-Lancaster, Part 2, Erie County, 3.54 mi.: Mosier & Summers, Inc., Buffalo, $59,998. Road No. 1446, South Newstead-Peters Corners, Erie County, 0.91 mi.: No bids. Road No. 5622, Holland-Yorkshire, Part 1, Erie County, 5.19 mi.: No bids. Road No. 1459, Wayland-Dansville, Part 2, Livingston County, 1.47 mi.: Bradley & McGreevey, Elmira, $19,595; Kennedy Construction Co., Albany, $19,999; Atlanta Construction Co., Atlanta, $20,005. Road No. 573-A, Sea Breeze-Nine Mile Point, Monroe County, 0.11 mi.: C. W. Reynolds, New York, $1,830. Road No. 513, Amsterdam-Morris Corner, Montgomery County, 2.49 mi.: No bids. Road No. 514, Snooks Corners-Amsterdam Montgomery County, 2.70 mi.: No bids. Road No. 515, Berryville-Sammonsville, Montgomery County, 1.61 mi.: No bids. Road No. 517, Palatine Bridge-Stone-Arabia, Montgomery County, 3.70 mi.: No bids. Road No. 1396, Sheridan Boulevard-Burnside Ave. and Rockaway Tpke., Nassau County, 2.99 mi.: Rosenthal Engineering and Contracting Co., Inc., Brooklyn, $118,052. Road No. 5590, Lewiston Heights-Lewiston, Niagara County, 0.61 mi.: No bids. Road No. 5624, Richfield Springs Village-Church, Prospect and Bronner St., Otsego County, 1.05 mi.: Union Paving Co., Schenectady, $26,537; Federal Pavement Corporation, New York, $26,-867; Harry W. Roberts Co., Inc., Utica, $26,954. Road No. 1455, Brewster-Connecticut State Line, Putnam County, 3.42 mi.: John R. Arborio, New Haven, Conn., $42,880; John A. Jova, Inc., Newburgh, $43,499. Road No. 1423, Speighletown-Tomahanick Reservoir-Rensselaer County, 6.34 mi.: Belmar Construction Co., Troy, $84,591. Road No. 5519, Malta-Ballston Spa., Saratoga County, 3.73 mi.: F. D. Van Horn, New York, $22,096; John B. Dower, Ballston Spa., $23,366. Road No. 5545, Schenectady-Duanesburg, Part 2, Schenectady County, 5.62 mi.: Green & Miller, Schenectady, $49,600; Lane Construction Corporation, Meriden, Conn., $51,149. Road No. 1401, Willard-Ovid, Seneca County, 2.13 mi.: Hovey E. Benedict, Williamsport, Penn., $22,186. Road No. 1308, Hawthorne-Pleasantville, Westchester County, 2.15 mi.: John A. Jova, Inc., Newburgh, $22,516; James V. Troisi Mt. Vernon, $28,545. Road No. 1456, Westchester Ave., Westchester County, 1.09 mi.: Daly & Merritt, Portchester, $44,153. Road No. 1457, Lake St., Ridge St. and Harrison Ave., Westchester County, 4.62 mi.: Smith Bros. Contracting Co., Pelham, $66,380; Rosenthal Engineering and Contracting Co., Brooklyn, $69,828; Lewis Petrillo, Mt. Vernon, $75,056. Repair Contract No. 1001, Broome County, Road No. 125, 0.48 mi.: Sherman Contracting Co., Inc., Oneonta, $15,237; Frank Stento, Binghamton, $15,354; Tyne & Willey, Binghamton, $15,587. Repair Contract No. 999, Onondaga County Road No. 1039, 2.61 mi.: John H. Weidman, Syracuse, $11,555; McGreevey, McGuigan and Baum Construction Co., Elmira, $11,583; Rock & Griffin, Watertown, $12,143. Repair Contract, No. 1005, Albany County Roads 1220, 365, 5501, 367, 198, 366, 178, 192, 177: Thomas J. Martin, Beacon, $11,710; Defiance Corporation, Ticonderoga, $12,084; Edward Hartney, Modena, $12,220. Noted Sept. 7.

N. Y., Albion—City let contract paving East Bank St. sandstone blocks to HEMPDT & WASHINGTON, Monticello. About $9,618.

N. J., Atlantic City—(Official)—Bd. Comrs., City Hall, received low bids for improving portions New Hampshire and other avenues from Warner Quinlan Asphalt Co., Syracuse, asphalt, $193,509; Edward L. Baden, Atlantic City, warrenite, $226,990; Northern Construction Co., Newark, vitrified block, $289,037. Noted Sept. 7.

N. J., Hackensack—Joint Rd. Com. of Bergen and Hudson Counties, Hackensack, received low bids for improving Belleville Turnpike from Charles T. Kavanaugh, 34 West 55th St., Bayonne; R. J. Emmer, 150 Nesbit St., Weehawken; Northern Construction Co., 655 Broad St., Newark. T. J. Wasser, County Engr. Noted Aug. 24.

N. J., Mt. Holly—Burlington County let contract improving portion Mile Hollow-Yardville Rd. to NEWTON PAVING CO., Trenton, $37,061. Noted Sept. 14.

N. J., Newark—City let contract improving Abington Ave. to STANDARD BITULITHIC CO. Noted Aug. 17.

N. J., Newton—Sussex County to construct Beemerville-Branchville Rd. by day labor. About $11,000.

N. J., Washington—County let contract macadamizing Washington-Oxford Rd. to SALMON BROS., Netcong. Noted Mar. 2.

Penn., Burgettstown—City let contract grading, curbing and paving Elm, Lane and Market St. and Dinsmore and Florence Ave. to RHINEHART BROS., East Liverpool, Ohio, about $9,000.

Penn., Danville—City let contract paving lower Mulberry St. to T. L. EVANS SONS.

Penn., Eddystone—Borough let contract paving Simpson and 9th St. to UNION PAVING CO., Philadelphia; 11th, 12th, 13th and Leiper St., EASTERN CONSTRUCTION CO., Philadelphia. Noted July 20.

Penn., Hughesville—(Official)—Borough let contract 5,000 sq.yd. paving to B. H. CORYELL, Williamsport, 97c. per sq.yd. Noted Aug. 24.

Penn., New Castle—City let contract paving and curbing Washington. St. to M. J. SCANLON.

Penn., Pittsburgh—City let contract paving portions Point View and Pineridge St. to M. O'HERRON & SON, 1st and McKean St. Noted June 8.

Penn., Pittsburgh—City let contract improving portion Stobner Way to T. CRONIN & CO., 17th and Muriel St., about $5 682.

Penn., Shamokin—City let contract paving and concrete walls on creek channel to P. BARR, 418 West Spruce St., about $35,000.

Penn., West View—Borough let contract grading, paving and curbing about 5 streets, also sewer in 1 street, to AUSTIN & MATTHEWS, Connellsville.

Penn., Williamsport—City let contract paving Packer St. to B. H. CONYELL, about $19,000. Noted Feb. 17.

Del., Georgetown—(Official)—Rd. Office, Georgetown, let contract Sects. 5 and 6 of Coleman du Pont Rd. to E. C. HUMPHREYS, Hackensack, N. J. Noted Aug. 31.

Md., Baltimore—City let contract paving various alleys to M. B. MEULLER, 2104 Hanover St., about $25,000.

Md., Midland—(Official)—City received low bid grading and paving streets from Fuller Bros., Frostburg.

Va., Petersburg—City let contract 10,000 sq.yd. paving and 15,000-ft. concrete curb and gutter to L. LAWSON CONSTRUCTION CO., Essex Bldg.

W. Va., Hinton—Summer County let contract road from Talcott to Forest Hill Dist. to S. C. BALLENGEE, Talcott.

W. Va., Moundsville—County Court, Marshall County, let contract paving 1 mi. Green Valley Rd. to R. J. McFADDEN, Moundsville. Noted Aug. 31.

W. Va., Wayne—Wayne County let contract remaining mile of Piedmont Rd. between Ceredo and Huntington to F. DUVAL, West Huntington, $22,560.

Ga., Atlanta—City let contract paving portion Greenwood Ave. to SOUTHERN TILE AND STONE CO., Birmingham. Noted Aug. 31.

Fla., Palata—City received following bids for 11-mi. brick roads from Glesson & Hancock, about $23,500; Logan Concrete and Engineering Co., about $29,644.

Ala., Lafayette—Chambers County let contract 2 mi. highway to STANLEY & SINGER, Lafayette, $4,000. Noted Aug. 10.

Miss., Cartharge—(Official)—Leake County let contract 17½ mi. sand clay roads in Dist. No. 3 to F. D. HARVEY & CO., Starkville. Noted Aug. 31.

Miss., Friars Point—Coanoma County let contract about 76 mi. gravel road to F. A. GANO, Jackson, about $95,000. Noted Aug. 24.

Miss., Holly Springs—(Official)—Holly Springs and Mt. Pleasant Counties let contract road and bridge work to McTIGHE-HUGHES CO., Hazlehurst, $163,000. Noted Aug. 24.

Tenn., Chapel Hill—Turnpike Co. let contract 6 mi. road from Chapel Hill to Unionville to R. A. WILKES, Columbia.

Tenn., Morristown—City let contract paving streets in Dists. Nos. 8 and 9 to MURRAY CONSTRUCTION CO., Knoxville.

Ky., Newport—City let contract paving portion 10th St. to METZEL & O'HARA, wood block. Noted Aug. 17.

Ky., Paducah—City let contract paving number streets to HALLIDAY & PRESSER, about $40,000. Noted Aug. 17.

Ky., West Covington—City let contract paving portion Main St. to L. H. WENDT, Newport.

Ohio, Bedford—(Official)—Village let contract improving portion Wood Row Ave. and North St. to F. C. MILLER, Bedford. Noted Aug. 31.

Ohio, Canton—City received low bids for paving 16 streets from S. S. Satonx, Chicago, Cleveland Trinidad Paving Co., Cleveland; F. A. Downs. W. E. Sarver, City Engr. Noted Sept. 14.

Ohio, Circleville—City let contract paving Watt and Pinckney St. to REICHELDERFER BROS. Noted May 4.

Ohio, Cleveland—City let contract paving West 83d St. and repaving East 82d St. to CLEVELAND TRINIDAD PAVING CO., 421 Lakeside Ave. About $12,780.

Streets and Roads (Continued)

Ohio, Cleveland—(Official)—City let contract improving portion Woodland Hills-Garfield Blvd. to SPELLACK & ARMSTRONG, $6,500. Noted Aug. 10.

Ohio, Columbus—Franklin County let contract grading and macadamizing Barbee Rd., Norwich and Franklin Townships, to BAKER CONSTRUCTION CO., Quarry Rd., about $20,924.

Ohio, Columbus—City let contract paving portion Wyandotte Ave. to ANDREWS ASPHALT PAVING CO., Columbus, $5,470; Longview Ave. to CLEVELAND TRINIDAD PAVING CO., 420 Lakeside Ave., Cleveland $17,427.

Ohio, Columbus—City let contract concrete sidewalks to P. J. CONNELLY, Goodale St., about $14,016.

Ohio, Dayton—Montgomery County, let contract improving Stroop Hill Rd., Mill and Van Buren Townships, to GEIGER & FINKE, South Germantown St. Noted Aug. 10.

Ohio, Findlay—Hancock County let contract Fisher Rd., Washington Township, to O. A. PARKER, $4,100; Brown Rd., Madison Township, J. SEMLER, $4,460.

Ohio, Findlay—Hancock County let contract improving portion Ebersole Rd., Washington Township, to C. EDGINGTON, Arlington, $6,360.

Ohio, Greenville—(Official)—City let contract improving portion Spring St. to J. L. TEEGARDEN, Union City, Ind. About $5,695. Noted Sept. 7.

Ohio, Hillsboro—Highland County let contract improving portion New Market Rd. to C. A. LONSFORD and R. PATTERSON. Noted Aug. 31.

Ohio, Jackson—Jackson County let contract brick road to MAHLY BROS., Ironton, $29,061.

Ohio, Kenton—Hardin County let contracts road improvements to H. L. WILLIAMS, Kenton, Wood Free and Keeley Free Turnpikes, $8 394; J. J. TRESSEL, Ada, Mother Free Turnpike, $4,532; KROFT BROS., Ada, Casper Free Turnpike, $12,742; J. W. CAREY & ROBERTS, Ada, Wilcox Free Turnpike, $4,545; J. R. MUSTARD, Ada, Schwemmer Free Turnpike $5,065. Noted Aug. 24.

Ohio, Lancaster—(Official)—City let contract paving portion East Main St., brick, to WILSON & BECKLER, Lancaster. About $11,807. Noted Sept. 7.

Ohio, Piqua—City let contract improving portion Miami St. to ZIEGLER & SNIDER.

Ohio, Troy—Miami County let contract range line road to R. EARHART and J. JOHNSON, Union, $6,989.

Ohio, Urbana—City let contract paving Hill St. to MILLER & SAXBE, $23,178.

Ohio, Warren—City let contract improving portion Austin Ave. to J. McELASKEN, about $5,600. Noted June 29.

Ohio, Xenia—City let contract paving East Main and Rogers St. to ANDREWS ASPHALT PAVING CO., Hamilton, about $63,408. Noted Sept. 14.

Ind., Albion—County let contract gravel road in Green Township to E. MAHONEY, Churubusco, $8,875. Noted Aug. 24.

Ind., Columbus—City Council let contract paving Washington and cross streets to W. B. BRADY CONSTRUCTION CO., Chicago. Noted Aug. 3.

Ind., Frankfort—Clinton County let contract gravel roads in Center and Madison Townships to C. F. GINN, W. J. NESS and A. F. COHEE. Noted Aug. 24.

Ind., Gary—City let contract paving portion Cleveland St. to M. D. HEINY, 815 Jefferson St., about $7,000.

Ind., Gary—City let contract paving Virginia St. to NATIONAL IMPROVEMENT CO., 2360 Conn St., about $17,106. Noted July 13.

Ind., Greenfield—County let contract 2 roads in Jackson Township to T. NEW & SON, $7,995, and G. W. CRIDER, $12,950.

Ind., Greensburg—(Official)—County let contract roads in Washington and Adams Townships to THOMPSON & DAVIS and C. E. REDINGTON, Greensburg, $6,670 and $6,750, respectively. Noted Aug. 17.

Ind., Hartford City—County let contract road in Tarrison Township to C. L. CURTIS, $10,377.

Ind., Huntington—Huntington County let contract roads in Jackson Township to J. HALL, Logansport, $11,662, and S. PALMER, Huntington, $14,938.

Ind., Madison—County let contract road work to J. E. MILES, R. R. No. 3, Madison, $16,650, and W. P. JACOBS, R. R. No. 6, Madison, $13,290.

Ind., Nashville—Brown County let contract roads to J. M. FLEETWOOD, Kirtz, $4,919, and G. W. POLLY, Elkinsville, $6,550. Noted Aug. 17.

Ind., Newport—Vermilion County let contract J. H. Miller Rd. to G. H. BRIGGS, Clinton, $6,848. Noted Aug. 17.

Ind., Portland—(Official)—Comrs. Jay County received low bids for brick roads in Wayne and Richland Townships and stone road in Pike Township from Rook & Co., Dunkirk, at $10,918; Amos Hoston, Ridgeville, at $11,600; W. R. Sprinkle, Portland, at $19,324. Noted Aug. 31.

Ind., Salem—Washington County let contract road in Monroe Township to A. E. CHASTAIN, Salem, $6,843.

Ind., Shelbyville—Shelby County let contract road in Hanover Township to D. H. FATOUT, 2010 West Washington St., $24,929. Noted Aug. 24.

Ind., Warsaw—County let contracts road work to W. COIN, Frankfort, A. Miller Rd., $22,300, J. S. Vanderveer Rd., $9,290; T. E. SPARKS, Kirkland, J. F. Davison Rd., $15,599; A. H. BARNES CO., Logansport, J. M. Heckaman Rd., $11,325. Noted Aug. 24.

Mich., Mason—(Official)—Ingham County rejected bids for concrete road from East Lansing Highway. Noted Aug. 31.

Mich., Royal Oak—City let contract paving to R. D. BAKER CO., Detroit.

Ill., Chicago, Heights—City let contract improving portion Main St. and Birmingham Ave. to CHICAGO HEIGHTS COAL CO. About $12,878.

Ill., Granite City—Bd. Local Impvts. let contract paving E and North 24th St. to HOEFFKEN BROS., Race and B St., Belleville, about $45,000. Noted July 20.

Ill., Joliet—City let contract paving Willow Ave. to R. L. CONWAY CO., 133 West Washington St., Chicago, about $4,587. Noted Sept. 7.

Ill., Pekin—City let contract paving Bacon-Summer St. Dist. to JANSON & ZOELLER, Pekin. About $1.70½ per yd. Noted Mar. 2.

Ill., Rock Island—City let contract paving portion 27th St. to McCARTHY IMPROVEMENT CO., $18,991. Noted Aug. 24.

Ill., Sandwich—(Official)—Bd. Local Impvts. let contract curbing, paving and sewers in portion Main and Railroad St. to PRONGER & FLETCHER, Blue Island. Noted Sept. 7.

Ill., Urbana—Bd. Local Improvements let contract paving portions Lincoln Ave. and Park St. to STIPES & PILCHER, Champaign.

Wis., Eau Claire—City let contract paving Wilson St. to CAST STONE CONSTRUCTION CO.

Wis., Fond du Lac—Fond du Lac County plans to spend about $67,000 for highways. M. Costello, Highway Comr.

Wis., Kaukauna—Bd. Pub. Wks. let contract paving portion Law St. to WILLISTON CONSTRUCTION CO. Noted June 22.

Wis., Racine—Flexible Construction Co. and Jensen & Petersen low bidders 40,000-ft. cement sidewalks. Noted Aug. 31.

Wis., Racine—City let contract grading Arlington Ave. to R. R. JONES, 45c. per yd.; Superior St. to FRED NELSON, 75c. per yd.; curbing and guttering West Blvd. to BIRDSALL & GRIFFITH at 59c. per yd.

Wis., Sheboygan—Bd. Pub. Wks. let paving contracts as follows: Concrete paving on North 14th St. to PRESTIFN & NAUMANN, about $11,993; vitrified brick. Calumet Rd. Sect. Nos. 1 and 2 to CHRIS JOHNSON, about $13,455 and $15,886.

Wis., Washburn—City let contract paving 5 blocks to T. E. WOOLEY, La Crosse, about $40,000.

Wis., Wausau—City plans to pave portion Gilbert St. by day labor, macadam.

Iowa, Sioux City—City received low bid for paving 19th and Wall St. from Julius Overson.

Minn., Crookston—City let contract paving Hunter St. to GRAND FORKS CONCRETE CO., Grand Forks, $1.66 per sq.yd. Noted Aug. 17.

Minn., Luverne—Rock County receiving bids Oct. 2 for about 20 mi. graveling on county roads Nos. 2, 4 and 5. O. Skyberg, Luverne, Audr.

Minn., Mankato—City let contract paving portion 4th St., brick, to J. H. EHMCKE, at $22,436.

Kan., Kansas City—City let contract paving to G. G. ROUDEBUSH, 612 Freeman St.

Kan., Manhattan—City let contract paving Bertrand St. to WATTS & AMMERMAN.

Kan., Pittsburg—City let contract 10 blocks paving to WILLIAMS CONSTRUCTION CO., Pittsburg, $1.35 per yd.; T blocks to THOGMARTIN & GARDNER, F. Scott, $1.61 per yd.; 5 blocks to A. JAICKS CO., Kansas City, Mo., $1.32 per yd. Noted July 27.

Kan., Wichita—City let contract paving portion Wabash Ave. to WILLISTON CONSTRUCTION CO. About $4,357. Noted Sept. 7.

Mont., Laurel—City let contract paving Main St. to H. C. GREEN, Spokane, $54,797. Noted Sept. 14.

Mont., Sheridan—City let contract bitulithic paving to WARREN CONSTRUCTION CO., Portland. About $25,000.

Mo., Carterville—City let contract paving portion Main St., concrete, to W. T. BURRUS, Carterville. Noted Aug. 24.

Mo., Joplin—City let contract paving portion 6th St. to WILLIAMS CONSTRUCTION CO., Pittsburg, Kan., about $19,775. Noted Jan. 6.

Mo., Kansas City—City let contract paving Saida Ave. to E. D. TYNER CONSTRUCTION CO., 2724 Campbell St.

Mo., Kirksville—City let contract paving portion New St. to S. L. EGGERT.

Mo., Liberty—City let contract paving Morse Ave. to J. T. CARR, Liberty. Noted July 27.

Tex., Georgetown—Williamson County let contract 12-mi. macadam road to F. McMILLAN, San Marcos, about $30,000. Noted Sept. 7.

Utah, Salt Lake City—(Official)—City let contract improving portion A St. to MULLINS & PALM, 225 West 4th North St., about $4,8[illegible] Noted Aug. 24.

Wash., Seattle—City received low bid for improving 47th St., S. W., from L. H. Goerig, [illegible] E. Terrace St. About $23,135.

Wash., Seattle—Bd. Pub. Wks. received low bids for paving Alkai Ave. (a) asphalt, (b) concrete, as follows: D. E. Traphagen, Alaska Bldg., (a) $26,207, (b) $25,853; Argentieri & Co., 989 Rainier Ave., (a) $26,661, (b) $29,079; Jahn Construction Co., Pioneer Bldg., (a) $28,523, (b) $29,054. A. H. Dimock. Noted July 27.

Wash., Seattle—King County let contract paving Duwamish Highway to SPARGER CONSTRUCTION CO., Coleman Bldg., $72,600. Noted Sept. 14.

Wash., Seattle—Council rejected bids for paving West McGraw St. Noted Aug. 10.

Calif., Bakersfield—J. D. Marsh, Wilson Bldg., Los Angeles, at $34,317, low bidder for surfacing portion Rio Bravo-Wasco Rd., Div. 4, Sect. 1.

Calif., Bakersfield—Kern County let contract Div. 12 of Randsburg-Johannesburg Rd. to J. D. MARSH, $43,483.

Calif., Bakersfield—Kern County let contract Div. 5, Sect. 4, Bakersfield-McKittrick Highway to J. D. MARSH, $34,317. Noted Aug. 31.

Calif., Berkeley—City let contract curbing, guttering and paving Kains Ave. to HUTCHINSON CO., 13th and Franklin St., Oakland.

Calif., Burbank—County let contract improving San Fernando Rd. to M. T. SHAFER, 220 West 22d St., Los Angeles, $4,054. Noted Sept. 7.

Calif., Huntington Beach—City Trustees let contract improving 17th St. to L. G. GARNSEY, 514 Central Bldg., Los Angeles. About $51,256.

Calif., Los Angeles—City let contract improving 11th St. to FAIRCHILD-GILMORE-WILTON CO., Pacific Electric Bldg. About $20,936.

Calif., Los Angeles—Los Angeles County let contract improving Sect. "D" of Mint Canyon Rd., Proposition "A" to BENT BROS., Central Bldg., $127,137. Noted Sept. 7.

Calif., Los Angeles—City let contract improving portion Carolina St. to FAIRCHILD-GILMORE-WILTON CO., $7,830.

Calif., North Beach—City Trustees received low bid for improving 1st and other streets from S-C Construction Co., 543 Title Insurance Bldg., Los Angeles. About $20,000.

Calif., Riverside—Riverside County let contract Santa Ana Canyon Highway to CONNER CONSTRUCTION CO., Los Angeles, $10,136.

Calif., Sacramento—City let contract improving 17th St. to McGILLIVRAY CONSTRUCTION CO.

Calif., San Diego—City let contract improving portion A and 29th St. to E. A. McALPIN, $5,240.

Calif., San Diego—City let contract improving portions Owen, Lawrence, McCall, Kellogg and San Fernando St. to F. A. McALPINE, San Diego, $24,470. Noted Aug. 3.

Calif., Santa Barbara—(Official)—City let contract paving portion Anacapa St. to A. L. PENCLOLA, Santa Barbara, about $11,603; portion Valerio St. to F. R. RITCHIE, San Francisco, about $6,424. Noted Aug. 24.

Calif., Stockton—(Official)—San Joaquin County let contract improving roads as follows: For Muller and Lane Roads to CY MORENIG, Stockton; Angiers Rd. to S. W. McCLEARY, Lodi. Noted Aug. 31.

Calif., Ventura—Ventura County Supvr. received low bids for improving Santa Susanna Pass Rd., Div. 10, Sect. 2, from C. L. Hyde Construction Co., 333 Spreckles Bldg., San Diego, about $27,884; C. H. Hudson, Trust and Savings Bldg., Los Angeles, about $27,889; S-C Construction Co., 543 Title Insurance Bldg., Los Angeles, about $31,153.

Que., Quebec—Council let contract paving Caron St. to SICILY ASPHALTUM PAVING CO., LTD., Montreal; Laliberte St., PAVING AND CONSTRUCTION CO., LTD., Quebec.

Que., Quebec—City to pave Aqueduct and Sauvageau Hills by day labor. W. D. Baillarge, Engr. Noted July 6.

Que., St. Petronile—City let contract macadam road to UNITED CONTRACTORS, LTD., 105 Fountain Hill, Quebec, about $5,038.

Ont., Chatham—City let contract paving Merritt St., concrete, to J. FALLAHEE, 5th St., $1.35 per sq.yd. Noted July 20.

Ont., Leamington—City let contract concrete sidewalks to LINK & SCRATCH.

B. C., Edmonds—City let contract improving Kingsway to COLUMBIA BITULITHIC CO. About $4,045.

INDUSTRIAL WORKS

Proposed Work

R. I., Providence—General Electric Co., Hospital St., making plans for plant. E. B. Whipple, 17 Exchange St., Arch. Noted Apr. 13.

Conn., Middletown—Meech & Stoddard, Inc., 340 Main St., making plans for 2-story, 55x100-ft. warehouse. J. E. Stevens, 53 Devonshire St., Boston, Arch.

N. Y., Amsterdam—Premier Broom Co. making plans for 2-story, 40x100-ft. factory. About $20,000. H. W. Grieme, Blood Bldg., Arch.

Industrial Works (Continued)

N. Y., Buffalo—Linde Air Products Co. plans addition to factory at 156 Chandler St. About $40,000.

N. Y., Buffalo—Schoellkopf Analine and Chemical Works, 324 Abbott Rd., plans warehouse. About $202,700.

N. Y., Depew—Andover Silk Co. plans plant. About $20,000.

N. Y., New York—(Brooklyn)—Arthur Ackerman making plans for 1-story, 50x100-ft. garage at 459 12th St. About $20,000. Thode & Harvie, 406 9th St., Arch.

N. Y., New York—(Brooklyn)—Curtiss Building Co., 2015 Ocean Parkway, made plans for 2-story, 72x94-ft. factory. About $25,000. P. Tillion & Son, 381 Fulton St., Arch.

N. Y., New York—(Brooklyn)—R. Hendrickson made plans for 2-story, 25x128-ft. brick garage and storage building at St. Marks Ave. near Albany Ave. About $23,000. C. A. Goldberg, 220 5th Ave., Manhattan, Arch.

N. Y., New York—(Manhattan)—H. D. Bahr, 285 East 137th St., receiving bids for 6-story, 50x96-ft. brick garage at 136th St. and Lincoln Ave. About $65,000. J. C. W. Ruhl, 3207 Hull Ave., Arch.

N. Y., New York—(Manhattan)—J. G. Wendel Real Estate Co., 175 Broadway, making plans for 4-story, 50x90-ft. garage at 39th St. and 7th Ave. About $40,000. S. Cohen, 32 Union Sq., Arch.

N. Y., New York—(Queens)—Moore Bros. made plans for 4-story, 56x178-ft. brick and concrete garage on Broadway, Flushing, L. I. About $20,000. A. E. Richardson, 100 Amity St., Arch.

N. Y., Utica—McCoy Iron Works, Perth Amboy, N. J., plans 90x300-ft. plant at Utica.

N. J., Newark—White Tar Co. made plans for plant along Hackensack River. About $30,000. J. D. Castles, Kearny, Supt. Noted Sept. 7.

N. J., Paterson—T. A. Kelley, 186 Clay St., making plans for 4-story, 62x152-ft. mill. W. T. Fanning, Colt Bldg., Arch.

N. J., Trenton—Mercer Auto Co. made plans for 2-story, 60x305-ft. assembling building. J. A. Hunt, 114 North Montgomery St., Arch.

Penn., Oakmont—Hall Concrete Products Co. making plans for 3-story, 125x300-ft. factory. J. C. Norton, Lancaster Ave., Bryn Mawr, Arch.

Penn., Pittsburgh—Aaron De Roy Motor Car Co. plans 4-story rein.-con. assembling plant and repair shop on Forbes St. About $80,000.

Del., Wilmington—Wilmington Leather Co. made plans for 6-story, 50x200-ft. factory. About $50,000. J. J. Kennedy, Ford Bldg., Arch. Noted Aug. 31.

Md., Baltimore—A. M. Sproesser making plans for 2-story warehouse on Key Highway. J. C. Spedden, 1640 Hanover St., Arch.

Md., Lonaconing—W. Oss, Swanton, plans 3-story, 30x60-ft. flour and grain mill at Lonaconing.

D. C., Washington—Anderson Pneumatic Tire and Spring Co. made plans for 1-story, 100x100-ft factory. About $30,000. Austin & Sons Co., Transportation Bldg., Philadelphia, Arch.

Va., Pulaski—Paul Knitting Mills made plans for 1-story, 40x150-ft. factory.

Va., Roanoke—Ballou Safety Rail Joint Co., 103 Farmers' Supply Bldg., plans plant.

W. Va., Fairmont—Fairmont Mining Machinery Co. plans additions.

N. C., Albemarle—Wiscassett Mills Co. plans 2-story, 80x100-ft. hosiery mill.

N. C., Hamlet—Clark-Rhodes Lumber Co., Lyric Bldg., Richmond, Va., plans factory at Hamlet.

N. C., Kinston—Caswell Cotton Mills plan addition. About $70,000.

N. C., Mooresville—Mooresville Cotton Mills plans additions.

N. C., Oxford—B. Jeffries, Chase City, Va., and associates plan box factory at Oxford. About $100,000.

N. C., West Jefferson—Hice Manufacturing Co. plans 60x250-ft. factory. About $10,000.

N. C., Wilmington—W. H. Crocker of Old North State Pulp and Paper Co., plans plant. About $1,500,000.

Fla., Jacksonville—Hillyer, Spearing & Dunn Co. plans shipbuliding plant. C. L. Hillyer, Pres.

Fla., Pensacola—B. F. & J. T. Sprinkle plans packing plant.

Ala., Dothan—W. L. Branden & Son, Jacksonville, Fla., plans grain elevator at Dolthan. About $30,000.

Ala., Tuscaloosa—Tuscaloosa Railway and Utilities Co. plans warehouse. C. R. Carter, Tuscaloosa, Vice-Pres., Treas. and Gen. Mgr.

Miss., Columbus—West Point Handle and Lumber Co., West Point, plans factory at Columbus.

Miss., Starkville—Winner & Ford plans factory on Connell Pl.

Tenn., Chattanooga—Lookout Knitting Mills plans factory. About $25,000.

Tenn., Chattanooga—Mercer Reynolds, Mgr. Lookout Oil and Refining Co., plans to organize company to build cotton compress and warehouse.

Tenn., Chattanooga—Southern States Warehouse Co. made plans for compress. C. S. Kinney, Pres.

Tenn., Jackson—Harlan-Morris Stave Manufacturing Co. plans to rebuild plant.

Ky., Louisville—Mengel Box Co. plans 4-story, 120x130-ft. addition to warehouse. About $30,000.

Ky., Mayfield—Mayfield Woolen Mills plans 2-story, 75x150-ft. addition. E. Wickersham, Arch.

Ohio, Akron—Mohawk Rubber Co. granted permit for 3-story factory at 1271 2d Ave. About $25,000.

Ohio, Cincinnati—Fischer Special Manufacturing Co., 2076 Reading Rd., made plans for 2-story addition to plant. Tietig & Lee, 901 Fourth National Bank Bldg., Arch.

Ohio, Cincinnati—George Kinsey, Union Trust Bldg., plans 2-story, rein.-con. factory on Reading Rd. About $30,000.

Ohio, Cincinnati—Moore Oil Co., York and McLean Ave., plans service station on Reading Rd.

Ohio, Cleveland—Columbia Steel and Shafting Co. plans addition on St. Clair Ave., N. E.

Ohio, Cleveland—Commercial Bookbinding Co. made plans for 1-story, 120x280-ft. factory. About $35,000. P. Matzinger, 109 Lennox Bldg., Arch. Noted July 27.

Ohio, Cleveland—General Incandescent Lamp Works of General Electric Co. granted permit for 1-story, 81x113 ft. warehouse. About $10,000. Noted Mar. 9.

Ohio, Cleveland—Louis A. Katz, 322 Williamson Bldg., granted permit for 1-story factory and machine shop at 7229 St. Clair Ave. About $30,000. Noted Aug. 31.

Ohio, Cleveland—McLaren Iron Works Co. made plans for factory at Urbana Ave. and Nickel Plate Ry. About $20,000.

Ohio, Cleveland—Midland Film Manufacturing Co. making plans for manufacturing buildings, amphitheater and studios. W. C. Owen & Co., 407 Euclid Bldg., Arch.

Ohio, Columbus—H. S. Cruikshank, 402 Schultz Bldg., plans 62x187-ft. garage. About $25,000.

Ohio, Oakley—(Cincinnati post office)—Cincinnati Milling Machine Co. applied for permit for addition. About $30,000. Noted Oct. 21.

Ohio, Wooster—Buckeye Aluminum Co. plans additions.

Ohio, Wooster—Woodard Machine Co. plans additions.

Ohio, Yorkville—Wheeling Steel and Iron Co. plans additions.

Ohio, Youngstown—Youngstown Iron and Steel Co. plans additions.

Ind., Greencastle—Greencastle Orchard Co. made plans for ice and cold-storage plant. About $60,000. McLain & Tripp, Indianapolis, Arch.

Ind., Logansport—Baker Bros. Manufacturing Co. plans factory. Paul Baker, Denver, Colo., and Frank Baker, Winamac, interested.

Mich., Detroit—Detroit Insulated Wire Co., 641 Wesson St., plans 2-story factory. About $18,000.

Mich., Grand Rapids—National Brass Co. made plans for 2-story, 45x82-ft. addition.

Ill., Aurora—Chicago, Burlington & Quincy Railroad Co. plans freight car shop. About $15,000 T. E. Calvert, 547 West Jackson Blvd., Chicago, Ch. Engr.

Ill., Aurora—International Corset Co. granted permit for addition on South Union St. About $41,000.

Ill., Chicago—J. M. Smyth Co. plans garage at Lake St. and St. John's Court. About $40,000.

Ill., Danville—Danville Creamery Co., 213 East North St., plans plant at 123 North Washington Ave. About $50,000. F. Lockwood, Vice-Pres.

Ill., Freeport—W. T. Rawleigh Co. making plans for plant. About $400,000. F. D. Chase, 122 South Michigan Ave., Chicago, Arch. and Engr. Noted Sept. 7.

Ill., Golconda—Golconda Portland Cement Co. plans plant. About $1,000,000.

Ill., Hartford—(East Alton post office)—International Shoe Co., 13th and Mullanphy St., St. Louis, Mo., made plans for 5-story tannery at Hartford. About $1,000,000.

Ill., Monmouth—Monmouth Public Service Co. plans ice plant.

Ill., Orangeville—Borden Milk Condensing Co. plans factory.

Ill., Peoria—F. Harbers & Son, 900 Fisher Ave., making plans for 1-story, 100x150-ft. garage. About $25,000.

Wis., Baldwin—Baldwin Co-Operative Creamery Association making plans for 1-story, 80x80-ft. creamery. About $10,000. C. Kampfer & Son, 103 Bates Ave., St. Paul, Minn., Arch. Noted Aug. 3.

Wis., Fond du Lac—Galloway West Creamery Co. plans creamery on Thompson St. About $20,000.

Wis., Green Bay—Green Bay Packing Co. making plans for 5-story, 50x128-ft. plant. P. T. Benton, Bellin-Buchanan Bldg., Green Bay, Arch.

Wis., Valders—Wisconsin Condensed Milk Co., Burlington, plans plant at Valders.

Iowa, Davenport—Wolfer Cadillac Co. plans 64x150-ft. brick and terra cotta building. About $45,000.

Minn., Alexandria—Gamble Robinson Co., 220 6th St., N., Minneapolis, plans 2-story, 40x70-ft. warehouse at Alexandria. About $10,000.

Minn., Claremont—Claremont Creamery Co. plans 1-story creamery. About $12,000. C. Kampfer & Sons, 103 Bates Ave., St. Paul, Arch.

Minn., Faribault—A. L. Kelly and D. Grant, Jr., plans 4-story, 100x200-ft. garage. About $75,000.

Minn., Minneapolis—Keller Manufacturing Co. plans 2-story foundry. W. F Keller, 1325 Quincy St., N. E., Mgr.

Minn., Newport—Farmers' Terminal Packing Co. receiving bids about Nov. 1 for packing plant. About $400,000. Haugen & Newstrom, Commerce Bldg., St. Paul, Arch. Noted July 20.

Minn., Owatonna—L. G. Campbell plans to rebuild flour mill. About $10,000.

Minn., St. Paul—General Dry Milk and Creameries Co., Inc., plans plant. About $150,000. E. F. Jackson, 620 Endicott Bldg., interested.

Minn., St. Peter—Sanitary Spray Co. plans factory. About $15,000.

Minn., South St. Paul—Hinman & Co. plans packing and cold-storage plant. About $50,000.

Minn., Wabasha—Wabasha Pearl Button Co. plans factory.

Kan., Kansas City—Thomas Ruddy Co. plans packing plant on 5th St. T. P. Ruddy Pres. D. L. Fuller, Treas. and Mgr.

Neb., Omaha—City plans factory. J. A. Bruce, City Engr.

Mo., Bird Point—(Wyatt post office)—St. Louis Iron Mountain & Southern Ry. plans roundhouse and turntable. A. E. Hadley, Railway Exchange Bldg., St. Louis, Ch. Engr.

Mo., Charleston—Brown De Field Grain Co. soon lets contract grain elevator. About $25,000. E. Lindsay Brown, Mgr.

Mo., St. Louis—Sterns Tire and Tube Co. plans 4-story, 120x200-ft. rein.-con. plant. About $250,000.

Tex., Dallas—Buick Co., Young and Browder St., plans 3-story plant. About $25,000.

Tex., El Paso—El Paso Ice and Refrigerator Co. plans cold-storage plant. J. C. Peyton, Mgr. D. I. Davis & Co., Chicago, Arch.

Tex., Ft. Worth—Walker Properties Association plans 120x130-ft. factory. About $10,000. Kuehne, Chasey & Giesecke, Austin, Arch.

Tex., Galveston—Barber Asphalt Paving Co., Land Title Bldg., Philadelphia, plans plant at Galveston. About $300,000.

Tex., Houston—J. H. Swope promoting organization of company to build cotton mill. About $500,000.

Tex., Houston Heights—Oriental Textile Mills plans additions to plant.

Wash., Seattle—J. F. Duthie & Co. plans shipbuilding plant on Kitsap Ave. tidelands. About $1,000,600.

Wash., Seattle—W. Pigott plans plant at 3800 Iowa St. About $10,000.

Wash., Seattle—Port of Seattle Comrs., Bell St. Dock, soon receives bids for 2-story, 90x360-ft. warehouse on Spokane St. About $31,000.

Calif., Los Angeles—Los Angeles and Riverside Manufacturing Co. making plans for factory.

Calif., Tracy—Whitehall Estates plan beet sugar plant, about $1,000,000.

Ont., Chatham—Gray-Dort Motor Co. plans plant.

Ont., Ft. Williams—Saskatchewan Co-Operative Elevator Co., Regina, Sask., receiving bids about Oct. 1 for grain elevator at Ft. Williams. About $1,000,000.

Ont., Hamilton—Acme Stamping and Tool Co., Sydney St., making plans for addition.

Ont., London—G. White & Sons Co., Ltd., Cabell Ave., making plans for addition on Adelaide St. About $15,000.

Ont., Toronto—Northop & Lyman Co., Richmond St., W., granted permit for 4-story brick factory and warehouse at 66 Wellington St., W. About $50,000.

Ont., Toronto—S. L. Yolles, 67 Baldwin St., plans garage on Queen St., W. About $20,000.

Bids In and Contracts Awarded

Mass., Attleboro—Frank Mossberg Co., Lamb St., let contract two 1-story, 150x200-ft. and 80x120-ft. factories to GRANT BROS., Attleboro. Noted Sept. 14.

Mass., Boston—United Fruit Co., 131 State St., let contract sugar refinery to H. P. CONVERSE CO., 88 Broad St. About $2,000,000. Noted Apr. 20.

Mass., Brightwood—Bosch Magneto Co. let contract 1- and 2-story, 170x260-ft. factory to CASPER RANGER CONSTRUCTION CO.

Mass., Chicopee—National Scale Co. let contract 2-story factory to H. D. BEST & CO., 52 Vanderbilt St., New York. About $30,000.

Mass., East Deerfield—Boston & Maine R.R. let contract brick locomotive shop to H. WALES LINES CO., Meriden, Conn. About $80,000.

Mass., Everett—L. I. Beckwith, 8 Malden St., let contract 50x212-ft. factory to CLARK & LEE CO., 201 Devonshire St., Boston. About $22,000.

Mass., Holyoke—E. H. Freidrich Co. let contract 2-story, 60x110-ft. factory to CASPER RANGER CONSTRUCTION CO.

Mass., Watertown—Hood Rubber Co. let contract factory to C. A. DODGE CO., Erie and Albany St. About $80,000.

Conn., Hartford—Colt's Patent Fire Arms Manufacturing Co., Vandyke Ave., let contract factory to J. H. GROZIER, 721 Main St. About $22,000.

Industrial Works (Continued)

Conn., New Haven—C. Cowles & Co., Chestnut and Water St., let contract 5-story, 60x500-ft. factory to ABERTHAW CONSTRUCTION CO., 27 School St., Boston.

Conn., Norwalk—M. N. Mayehoff & Co., Merwin St., let contract addition to A. R. MALKIN & CO., 3 Mechanic St. About $12,000. Noted Aug. 17.

Conn., Waterbury—American Brass Co., Washington Ave., let contract additions to CHATFIELD & CHATFIELD, 94 Benedict St. About $20,000.

N. Y., Albany—[illegible] Wander & Sons Chemical Co., 75 Church [illegible] contract 3-story, 70x127-ft. factory to R. B[illegible] 312 Quail St. About $55,000. Noted [illegible]

N. Y., Jamestown—Crescent Tool Co. will build 1-story, 48x171-ft. factory by day labor. About $15,000.

N. Y., New York—(Manhattan)—Baker & Williams let contract 9-story warehouse to CAULDWELL-WINGATE CO. Noted Apr. 13.

N. Y., New York—(Manhattan)—J. G. Wendell Estate, 175 Broadway, let contract service station and show rooms to be leased by Willys-Overland Co., 58th St. and Broadway, to LEONARD CONSTRUCTION CO., 17 Battery. About $30,000.

N. Y., Rochester—Schlegel Manufacturing Co., 277 North Goodman St., let contract addition to ALEXANDER, SHUMWAY & UTZ CO., $15,500. Noted Aug. 31.

N. J., Camden—Joseph Campbell Co. let contract warehouse at Delaware Ave. and Cooper St. to POMEROY CONSTRUCTION CO., 1609 Ranstead St., Philadelphia, $16,000. Noted Aug. 17.

N. J., Irvington—Wiegand & Co. let contract 2-story, 26x140-ft. factory to FATZLER CO., 810 Broad St., Newark.

N. J., Jersey City—Brunswick Laundry Co., 71 Germania Ave., let contract 2-story, 40x140-ft. addition to H. A. CRANE & BRO., 28 Fairmount Ave., Jersey City. About $25,000. Noted May 25.

N. J., Newark—Duratex Co. let contract 2-story, 72x142-ft. addition at 768 Frelinghuysen Ave. to LEVERING & GARRIGUES CO., 552 West 23d St., New York. About $33,000.

N. J., Newark—Radel Leather Manufacturing Co. let contract 2-story brick addition on Hamburg Place Rd. to REYNOLDS CONSTRUCTION CO.

Penn., Carbondale—Delaware & Hudson Co. let contract improving yards to PORTER BROS. James MacMartin, Albany, N. Y., Ch. Engr.

Penn., Harrisburg—Pennsylvania R.R. let contract 4-story rein.-con. warehouse to WARREN MOORE & CO., Philadelphia. Noted Apr. 20.

Penn., Lansdale—Haytack Cronemeyer Co., 16th and Butler St., let contract 1-story, 70x136-ft. silk mill to LUDWIG KAELIN, Lansdale.

Penn., Philadelphia—Espoir Realty Co., 243 South 3d St., let contract 1- and 2-story, 49x247-ft. factory at 3d and Poplar St. to F. A. HAVENS & CO., 845 North 19th St.

Penn., Philadelphia—S. B. & B. W. Fleisher let contract factory and power plant at 25th, 26th, Reed and Dickinson St. to WILLIAM STEELE & SONS CO., 1600 Arch St. Noted Dec. 23.

Penn., Pittsburgh—National Casket Co. let contract 4-story, 62x78x137-ft. warehouse and garage to E. A. WEHR, Highland Bldg., East Liberty. About $50,000. Noted June 15.

Penn., Portage—Standard Heater and Refrigerating Co. let contract 1-story, 75x110-ft. factory to E. M. DERRICK, Portage. About $12,000.

Md., Sparrows Point—Maryland Steel Co. let contract pattern shop to DEVESELL, SPENCER & CO., 1007 Garrett Bldg., Baltimore. Noted Mar. 2.

D. C., Washington—Barber & Ross, 11th and G St., will build plant by day labor. About $24,000.

Va., Norfolk—Security Storage and Safe Deposit Co. let contract 5-story, 84x181-ft. warehouse to R. R. RICHARDSON & CO., Bank of Commerce Bldg. About $60,000. Noted June 29.

Va., Norfolk—Virginia Hyde and Fur Co. let contract 1-story, 36x100-ft. factory to AUGUST COSTER, Arcade Bldg. About $15,000. Noted July 13.

W. Va., Huntington—Fulton Tool Co. let contract plant to H. PERSUM, Huntington. Noted July 13.

W. Va., Kenova—Sanitary Manufacturing Co. let contract tunnel kiln to AMERICAN-DRESSLER TUNNEL KILN, 171 Madison Ave., New York.

W. Va., Moundsville—Fostoria Glass Co. let contract 4-story storage building and mold room to C. D. KEYSER, Bellaire, Ohio. About $25,000. Noted Aug. 17.

W. Va., Wheeling—General Baking Co. let contract 2-story bakery to W. H. BELTZ. About $50,000. Noted July 13.

N. C., Marion—Cross Cotton Mills Co. will build plant by day labor. About $12,000.

Ga., Statesboro—Bulloch County Packing Co. let contract packing plant to CARSON CONSTRUCTION CO., Savannah. Noted July 6.

Fla., Leesburg—Dixie Laundry let contract for laundry to R. F. E. COOKE and J. H. RANDOLPH.

Fla., Titusville—Palmetto Products Co. let contract factory to J. E. EASTERLY, Titusville. About $10,000.

Ala., Birmingham—Birmingham News let contract 4-story building to EVANS BROS. CONSTRUCTION CO., Birmingham. About $110,000. Noted June 1.

Ohio, Bloomdale—Good Elevator Co. let contract 2-story grain elevator to EFFICIENCY CONSTRUCTION CO., 36 South State St., Chicago. About $15,000.

Ohio, Bucyrus—Carroll Foundry and Machine Co. let contract machine shop to BELLEFONTAINE BRIDGE AND IRON CO., Bellefontaine, $34,000.

Ohio, Canton—Canton Steel Foundry, Allen and 15th St., S. E., let contract 160x240-ft. addition to SAMUEL AUSTIN & SON CO., 14230 Euclid Ave., Cleveland. About $70,000.

Ohio, Cleveland—Guide Motor Lamp Manufacturing Co. let contract 1-story, 50x55-ft. addition to MUNNICK, GIBBONS CO., 5309 Prospect St. About $11,000.

Ohio, Cleveland—Torbenson Gear and Axle Co. let contract factory to SAMUEL AUSTIN & SON CO., 14230 Euclid Ave. About $75,000. Noted Aug. 3.

Ohio, Columbus—North Columbus Ice Co. let contract 1-story, 65x112-ft. plant to MOOR BROS., 1858 Franklin Ave. About $50,000. Noted Aug. 31.

Ohio, Mansfield—Mansfield Sheet and Tin Plate Co. let contract addition to MASSILLON BRIDGE AND STRUCTURAL CO. About $65,000. Noted Dec. 16.

Ohio, Marietta—C. W. Schramm & Co. let contract bakery to C. D. COOLEY & CO., Century Bldg., Pittsburgh. About $35,000.

Ohio, Sandusky—Gartland Co. let contract factory to ALFRED SCHNURR, Sandusky.

Ohio, Zanesville—Mosaic Tile Co. let contract 1-story, 130x300-ft. addition to DUNZWELLER BROS.

Ind., Evansville—Triangle Overall Co., 18 Vine St., rejected bids received for addition. About $12,000. Noted Aug. 17.

Ind., Indianapolis—Studebaker Corporation let contract foundry and machine shop to JAMES STEWART & CO., INC., 110 South Dearborn St., Chicago.

Ind., South Bend—Studebaker Corporation, Brush and Piquette St., Detroit, Mich., let contract foundry and machine shop to JAMES STEWART & CO., 110 South Dearborn St., Chicago, Ill. About $1,500,000. Noted June 22.

Mich., Detroit—General Ice Delivery Co. let contract plant to CHRISTMAN CO.

Mich., Detroit—S. K. Rothschild, 616 Hammond Bldg., let contract 3-story, 80x80-ft. factory to F. DAVIS. Noted Aug. 3.

Mich., Grand Rapids—Ideal Foundry Co. let contract 2-story, 40x100-ft. brick pattern shop and office building to H. HOFSTRA & SON.

Ill., Chicago—Centaur Motor Co., 2246 South Michigan Ave., let contract masonry for 2-story garage on Wabash Ave. to E. V. JOHNSON, 80 East Jackson Blvd. About $60,000.

Ill., Chicago—Chicago Coated Board Co., 420 East North Water St., let contract masonry 1-story brick factory to DAVIDSON & WEISS, 10 South La Salle St. About $10,000.

Ill., Chicago—Chicago Junction Railway Co. let contract 1-story brick roundhouse at Robey and 42d St. to E. W. SPROUL & CO., 1120 West 35th St. About $30,000.

Ill., Chicago—Darling & Co., 4209 South Ashland Ave., let contract 2-story brick warehouse to STRESENREUTER BROS., 3020 South Halstead St. About $50,000.

Ill., Chicago—J. P. Kutten & Co., 30 North La Salle St., let contract 2-story garage at 1526 North Crawford Ave. to NICHOLSON & ZIMMERMAN, 133 West Washington St., Chicago. About $50,000.

Ill., Chicago—F. Post Co., 202 South Clark St., let contract 1-story, 50x50-ft. addition to T. EIDE, 4328 North Francisco Ave. About $10,000.

Wis., Green Bay—Hagemister Realty Co. let contract 2-story auto distributing building to H. J. SELMAR, 130 North Oakland Ave. About $50,000. Noted Aug. 24.

Wis., Milwaukee—Greenebaum Tanning Co., Hampton Ave., let contract 2-story, 55x151-ft. addition to PAUL RIESEN & SONS CO.

Wis., Milwaukee—Jaeschke Bros. Foundry Co., Cawker Pl., let contract brick and steel addition to PAUL RIESEN'S SON, 1018 Humboldt Ave.

Wis., Milwaukee—National Brake and Electric Co., Belleview Pl., let contract rein.-con. storage building to WISCONSIN CEMENT CONSTRUCTION CO., 1000 Humboldt Ave.

Wis., Milwaukee—Standard Oil Co. let contract 2-story garage and warehouse at Fratney St. and Auer Ave. to BANDALL & WARNER, 79 West Monroe St., Chicago. About $12,000.

Wis., Racine—Gordon Machine Co. let contract 1-story, 75x180-ft. machine shop to NELSON & CO., Robinson Bldg.

Wis., Sheboygan Falls—Falls Machinery Co. let contract plant to IMMEL CONSTRUCTION CO., 200 North Main St., Fond du Lac. About $60,000. Noted Aug. 31.

Iowa, Sioux City—Mariner & Tupy, Inc., 510 Douglas St., let contract 1-story, 50x150-ft. factory to COOMER & SMALL, 312 United Bank Bldg. About $18,000. Noted Aug. 3.

Minn., Duluth—Northern Pacific Ry. let contract car shops to N. W. & W. A. NELSON 160 Temple Court, Minneapolis. Noted Aug. 24

Minn., Minneapolis—Minneapolis Steel and Machinery Co., 29th and Minnehaha St., will build 2-story machine shop at 2906 Minnehaha St. by day labor. About $20,000. Noted Nov. 11.

Minn., St. Paul—Abbey Grain Co. let contract grain elevator to EQUITY CONSTRUCTION CO., 417 Pioneer Bldg.

Kan., Hutchinson—Modern Baking Co. let contract 2-story, 49x82-ft. bakery to A. J. & C. E. PEUGH, $8,895. About $25,000.

Kan., Salina—G. W. Jenkins let contract 1-story, 50x110-ft. bakery to F. ALMAN, $1[illegible],000

N. D., Bismarck—Missouri Valley Motor Co. let contract 3-story, 50x120-ft. assembling plant to MAINECKE CONSTRUCTION CO., Fargo. About $30,000. Noted Mar. 9.

Mo., Kansas City—Atchison, Topeka & Santa Fe Ry. let contract addition and remodeling freight house at Hickory and Joy St. to G. W. HUGGINS CONSTRUCTION CO., 1121 Commerce Bldg. About $20,000.

Okla., Bartlesville—Osage Foundry and Machine Co. let contract rebuilding foundry to A. GORMAN, Bartlesville. About $10,000.

Okla., Oklahoma—St. Louis & San Francisco R.R. will build 10-stall roundhouse, machine shop, storehouse, etc., by company's own forces. About $250,000. F. G. Jonah, St. Louis, Ch. Engr.

Ont., Lindsay—Government let contract Dominion Arsenal to WESTINGHOUSE-CHURCH-KERR & CO., 37 Wall St., New York.

Ont., Ottawa—National Manufacturing Co., Catherine St., let contract addition to G. Crain, Clemow Ave. About $16,000.

Ont., Toronto—Corrugated Paper Co., Ltd., 187 Geary Ave., let contract addition to G. A. SCOTT, 575 Logan Ave. About $12,000.

Ont., Toronto—Russell Motor Car Co., 276 King St., W., let contract machine shop to DEACON CONSTRUCTION CO., Weston, $40,000.

FEDERAL GOVERNMENT WORK

Proposed Work

Conn., New London—Dredging—U. S. Engineer Office receiving bids Sept. 23, Duck Island Harbor.

N. Y., New York—Riprap—Lighthouse Inspector, Tompkinsville, S. I., receiving bids Sept. 29, Hunts Point Light Station, Hunts Point.

N. J., Bayonne—Building—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Oct. 20.

D. C., Washington—Steel Fence—Dept. of Interior receiving bids Oct. 4 steel fencing and gates for St. Elizabeth's Hospital.

Va., Norfolk—Dry Dock—Bureau of Yards and Docks, Navy Dept., receiving bids Oct. 21, Navy Yard. F. R. Harris, Ch. Noted Sept. 7.

La., New Orleans—Levee Work—U. S. Engineer Office, Queen and Crescent Bldg., receiving bids Sept. 29, about 2,590,000 cu.yd. earthwork in Lower Tensas, Atchafalaya and Pontchartrain Levee Dists.

Ill., Chicago — Breakwater — U. S. Engineer Office, 508 Federal Bldg., Chicago, receiving bids Oct. 17 for rubble mound breakwater at Chicago Harbor. (See adv.)

Ill., Quincy—Levee Work—U. S. Government appropriated $70,000, Sni Levee Dist.

Mo., Kansas City—Floor—J. A. Wetmore, Acting Superv. Arch., Treasury Dept., Washington, D. C., receiving bids for mezzanine floor, etc., in U. S. Post Office and courthouse, Kansas City. (See adv.)

Colo., Denver—Excavators—U. S. Rec. Ser. receiving bids Oct. 2, dragline excavators. A. P. Davis, Ch. Engr. (See adv. in Sept. 14 issue.)

Idaho, Boise—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Oct. 23. Noted July 6. (See adv.)

Bids In and Contracts Awarded

Mass., Boston—Dredging—Bureau of Yards and Docks received bids, 10,000 cu.yd., from Morris & Cummings Dredging Co., New York, 26c., Bay State Dredging and Contracting Co., Boston, 28c., Boston Dredging Co., Boston, 35c.

N. Y., Buffalo—Buildings—U. S. Engineer Office rejected bids, Black Rock Harbor. Noted Aug. 31.

N. Y., New York—(Brooklyn)—Post Office—Low bidders alterations were McKeown Construction Co., 103 Park Ave., Manhattan, $82,446; P. T. Cox, Manhattan, $86,666; Werner-Hubert Co., Brooklyn, $90,568.

Penn., Philadelphia—Post Office—E. F. Fonder, Philadelphia, at $27,498, only bidder for alterations. Noted Sept. 7.

D. C., Washington—High School—Comrs. Dist. let contract alterations and addition to Dunbar High School to MELTON CONSTRUCTION CO., Washington, $8,900.

D. C., Washington—Sewers—Bids received for sewers (a) piling driven in place, (b) lumber in place, (c) ordinary excavation, (d) concrete masonry B, (e) vitrified brick masonry, (f) sewer brick masonry, as follows: W. F. Brenizer Co., Washington, D. C., (a) 19c. per lin.ft., (b) $45 per M ft., (c) 10c. per cu.yd., (d) $6.90 per

Federal Government Work (Continued)

cu.yd., (e) $21 per cu.yd., (f) $12 per cu.yd.; W. F. Cush, Washington, (a) 25c., (b) $55, (c) $1, (d) $9.75, (e) $23, (f) $14; G. Hyman, Washington, (a) 27c., (b) $57, (c) $1, (d) $8.50, (e) $25, (f) $15. Noted Aug. 10.

D. C., Washington—Wall—Contract let to GEORGE A. FULLER CO., Munsey Bldg., Washington, for Lincoln Memorial, pink medford granite, $309,500. Noted Aug. 17.

Fla., Jacksonville—Dredging—Bids received for dredging and rock removal at Miami Harbor from Bowers Southern Dredging Co., Galveston, $137,603; E. Breyermann, Boston, $159,345; Coastwise Dredging Co., Norfolk, $163,941. Noted Aug. 10.

Fla., Orlando—Post Office—Low bidders were A. Blair, Montgomery, Ala., $48,400; R. P. Farnsworth & Co., Owensboro, Ky., $47,600; C. T. Friend, Tampa, $49,630. Noted Aug. 10.

Tenn., Memphis—Earthwork—U. S. Government let contracts as follows: Upper St. Francis Levee Dist., 225,000 yd., R. L. LEONARD, Memphis, 27c. per yd.; Reelfort Levee Dist., 360,000 yd., ROACH, STANSELL, LOXANA BROS. & CO., Memphis, 16c.; Lower St. Francis Levee Dist., 400,000 yd., RODGERS BROS., Memphis, 19c., 500,000 yd., R. L. LEONARD, Memphis, 26c.

Tenn., Nashville—Post Office—Government let contract alterations to N. KER CO., 1123 Broadway, New York, $347,400. Noted Sept. 7.

Tex., Dallas—Iron and Steel—U. S. Government let contract items A and C to MILWAUKEE BRIDGE CO., Milwaukee, $4,411, item B, C. SIGEWALD CO., New Albany, Ind., $11,509. Noted Aug. 10.

Ariz., Camp Verde—Building—Comr. Indian Affairs, Washington, rejected bids. Noted Aug. 10.

Ore., Portland—Rock—U. S. Engineer Office let contract 650,000 tons rock for work on north jetty of Columbia to COLUMBIA CONTRACTING CO., Portland, $650,000. Noted Aug. 17.

Calif., San Francisco—Pipe Line—Navy Dept. let contract submerged pipe line at Naval Training Station to T. CROWLEY, Embareadero St., San Francisco, $19,913. Noted Sept. 7.

Calif., Vallejo—Dredge—Bureau of Yards and Docks, Navy Dept., rejected only bid for bucket dredge at Mare Island Navy Yard. Noted Aug. 17.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., Albany—Barge Canal Work—W. W. Wotherspoon, State Supt. Pub. Wks., receiving bids Oct. 10 for Contract No. 59, Erie Canal, Sect. 9. About $1,675,253. Noted Aug. 31.

N. Y., Albany—Barge Canal Work—W. W. Wotherspoon, State Supt. Pub. Wks., receiving bids Oct. 10 for Contract No. 81, Erie Canal, Sect. No. 5, junction lock at Rome, about $61,236; Contract No. 137, Erie Canal, Sect. 3, driving steel sheet piling at Dam No. 10, Canajoharie and incidental work, about $25,333; Contract No. 91-A, Erie Canal, Sect. 1, new governor equipment for hydro-electric power plant near Crescent Dam, about $6,310; Terminal Contract No. 201, warehouses at Albany and Whitehall, about $16,444.

N. Y., Albany—Barge Canal Work—(Official)—W. W. Wotherspoon, State Supt. Pub. Wks., Capitol, Albany, receiving bids Oct. 17 for Barge Canal work as follows: Contract No. 19-A, Erie Canal, Sect. 11, redredging; Contract No. 139, Oswego Canal, Sect. 1, excavating channel of Oswego River; Contract No. 140, Champlain Canal, Sect. 1, bank protection along Hudson River near Waterford; Terminal Contract No. 19, dredging, bulkhead, wall and pier at Greenpoint, Brooklyn; Terminal Contract No. 6, pier and dredging terminal basin in Lake Champlain, Rouses Point; Terminal Contract No. 53, dock wall along Dead Creek and Ohio Basin, Buffalo. (See adv.)

Miss., Greenville—Drainage—Black Bayou Drainage Dist., Washington County, 100,000 acres, retained Morgan Engineering Co., 608 Hoodwyn Institute Bldg., Memphis, Tenn., to make surveys. Noted Aug. 3.

Miss., Quitman—Drainage—Comrs. Indian Creek Drainage Dist. made surveys for drainage system, 44,000 acres, in Quitman, Tunica and Panola Counties. About $240,000. Morgan Engineering Co., Memphis, Tenn., Engr.

Ind., Peru—Ditch—Miami County Comrs. plans ditch in Allen Township.

Ind., Rochester—Ditch—Fulton County receiving bids Sept. 23 for Melvin Hay et al. Ditch. A. V. Oliver, Constr. Comn.

Ill., Geneseo—Drainage—C. C. Martin, Geneseo, is engineer for drainage dist. being formed to enlarge Green River. H. Waterman, Atty.

Minn., Long Prairie—Ditch—Tood County lets contract about Oct. 15 for Ditch No. 33, about $5,737. S. S. Sargeant, County Surv. Noted Jan. 6.

Minn., Morris—Ditch—Bids received Aug. 22 for Ditch No. 25 rejected. New bids received Sept. 30. C. R. Wollchan, Morris, County Audr.

Kan., Kansas City—Drainage—Kaw Valley Drainage Bd. receiving bids Sept. 25 for 6,650 ft. levee work requiring about 43,000 cu.yd. embankment.

S. D., Aberdeen—Reclamation—G. Shanks, Hecla, interested in steps being taken to devise means of reclaiming land on Big Slough and James River bottoms.

Wyo., Dixon—Irrigation—E. A. Swenson, Hagerman Bldg., Colorado Springs, Colo., and W. Garstin, Engr., 409 Hagerman Bldg., Colorado Springs, interested in 24 mi. of 80 second ft. irrigation ditch. About $90,000.

Mo., Orrick—Drainage—City plans to drain 80 acres. About $8 500. Election soon to vote on bonds. E. B. Murray & Co., Kansas City, Engr.

Calif., Santa Ana—Drainage—Newport Protection Dist. and Talbert Drainage Dist. plans drainage ditch, 4 mi. S. H. Finley, Engr.

Calif., Willow—Irrigation—Plans being made for formation of Princeton-Cordora-Glenn Irrigation Dist.

Bids In and Contracts Awarded

N. Y., Albany—Barge Canal Work—Contract improving New York State Canals, Contract No. 135, Erie Canal, Sect. 3, let to GREAT LAKES DREDGE AND DOCK CO., $57,038. Noted Sept. 14.

N. Y., New York—(Manhattan)—(Official)—Dredging—Low bids received Aug. 16 for dredging West 209th St., Harlem River, Contract No. 1524, for (a) Class 1, 34,000 cu.yd., (b) Class 2, 15,000 cu.yd. from Morris & Cummings Dredging Co., 17 State St., (a) $0.53 per cu.yd., (b) $0.53; P. Sanford Ross, Inc., (a) $0.70, (b) $0.70; Coastwise Dredging Co., (a) $0.73, (b) $0.73. Noted Sept. 14.

La., Abbeville—Dredging—Vermillion Parish let contract to STREATER DREDGING CO. About $250,000. Noted Nov. 4.

Ind., Brazil—Drainage—Drainage Comr. let contract Mizer Ditch, including straightening, widening and deepening channel of Eel River to F. C. MORGAN, Indianapolis. About $160,000. Noted Sept. 14.

Mich., Birmingham—Dredging—Contract dredging and removing obstructions in Quarton Lake and Lagoon on Quarton Lake Estates let to G. R. COOK, Detroit.

Ill., Naperville—Drainage—Drainage Dist. No. 2 let contract tile drain to NATIONAL DRAIN TILE CO., Terre Haute, Ind. $10,970.

Iowa, Boone—(Official)—Drainage—Bd. Supervs. let contract Drain No. 134, Harrison Township, to J. LAURSEN, Scranton. Noted Sept. 7.

Iowa, Forest City—Drainage—Winnebmgo County let contracts Drainage Ditch No. 65 to ARMSTRONG CEMENT WORKS, Armstrong, $51,000 for tile; H. G. ERICKSON, Germania, $40,600 for labor.

Iowa, Logan—Drainage—County let contract Upper Willow Creek, Powley, Upper Boyer, Fischer and Mogger Drainage Projects to MILLS CONSTRUCTION CO., Logan, $0.07 per cu.yd. Noted Aug. 24.

Minn., Cambridge—(Official)—Ditches—Isanti County let contract County Ditches Nos. 11, 13 and 15 to C. W. ROOD CONSTRUCTION CO., Grand Rapids, Wis., at $8,755, $10,538 and $8,564 respectively. Noted Sept. 7.

Minn., Long Prairie—(Official)—Ditch—Contract County Ditch No. 32 let to ALDEN & TAHERY, Bertha, Minn., $24,960. Noted Jan. 6.

Minn., Marshall—Ditch—Contract County Ditch No. 21 let to ERICKSON & NELSON, Svea City, Iowa, $8,400. Noted Aug. 10.

Minn., New Ulm—Ditch—County let contract Brown County Ditch No. 29 to NEW ULM BRICK AND TILE WORKS, New Ulm, $17,100. Noted June 1.

Mo., Cottleville—(Official)—Drainage—Cottleville Drainage Dist. let contract drainage ditches in Dardenne Creek Bottoms to R. A. BROWN CONSTRUCTION CO., 3115 Bond Ave. Noted Sept. 7.

Ark., Walnut Ridge—Canal—Comrs. Lower Running Drainage Dist. let contract to P. FELDHEISER. About $25,000. Noted Aug. 24.

MISCELLANEOUS

Proposed Work

Maine, Bangor—(Official)—Coal Pockets—Stickney & Babcock Coal Co., Hinks Coal Co. and J. F. Angley Coal Co. plans to rebuild. About $60,000.

Maine, Bath—Coal Pockets and Wharf Extension—Lewiston, Augusta & Waterville Street Railway, Lisbon St., Lewiston, plans, Whitmore Wharf. A. H. Ford, Portland, Gen. Mgr.

Vt., Montpelier—Elimination Grade Crossing—City, Central Vermont Ry. and Montpelier & Wells River R.R. plans, between Montpelier and Barre. About $50,000. J. M. Morrison, St. Albans, Engr. Central Vermont Ry.

Mass., Boston—Park Improvements—City soon receives bids for Strandway Improvements, about $600,000, and extending Strandway sewer system, about $180,000. E. F. Murphy, Comr. Pub. Wks.

Mass., New Bedford—Budkhead—City soon receives bids, Popes Island. G. H. Nye, City Engr.

N. Y., Albany—(Official)—Book Shelving—Court of Appeals, State Hall, receiving bids Sept. 28, Legislative Library, Rooms 337-A and 337-B, and wood furniture. (See adv.)

N. Y., Albany—(Official)—Electric Fixtures—Trustees Pub. Bldgs., Executive Chamber, Capitol, receiving bids Sept. 28, State Hall. L. F. Pilcher, Capitol, State Arch. (See adv.)

N. Y., Briarcliff—(Pine Plains post office)—Fire House—City soon receives bids, 1-story, 22x75-ft. About $11,000. E. W. Applebee, 35 Linden Ave., Ossining, Arch.

N. Y., Buffalo—Signal Tower—Lehigh Valley R.R. plans, steel. E. B. Ashby, 143 Liberty St., New York, Ch. Engr.

N. Y., Clyde—Steam Shovel Work—(Official)—Central Dredging Co., Swetland Bldg., Cleveland, Ohio, has 150,000 yd. steam shovel work to sublet at Clyde. (See adv.)

N. Y., Glens Falls—Park Improvements—City plans, Glen St. O. C. Smith, 178 Glen St., Trustee.

N. Y., Great Neck—Park—Bd. Comrs. retained D. C. Wills, Engr., Great Neck, to make plans. About $12,000.

N. Y., New York—(Manhattan)—Passageway—Pub. Ser. Comn. authorized Rapid Transit Subway Construction Co., 165 Broadway, to build mezzanine passageway to Grand Central Station of subway. About $6,000.

N. Y., New York—(Manhattan)—Piers—Baltimore & Ohio Railroad Co. plans enlarging freight piers. R. N. Begien, Baltimore, Md., Ch. Engr.

N. Y., New York—(Manhattan)—(Official)—Station Finish—Pub. Ser. Comn. for First Dist. receives bids Oct. 6 for station finish for 6 stations on Rapid Transit Railroads now being constructed under Dual System.

N. Y., Rochester—Subway—F. T. Elwood, City Engr., approved plans of New York Central R.R. and Buffalo, Rochester & Pittsburgh Ry. for subway at Brown St. About $100,000. G. W. Kittredge, Grand Central Terminal, New York, Ch. Engr. New York Central R.R.

N. J., Asbury Park—Bulkhead—Plans submitted to Council by J. H. Emlem, Borough Engr., for bulkheading 767 ft. of river bank east of Main St. approved. H. L. Baumgartner, City Engr.

N. J., Avon—Bulkhead—Council approved plans, along Shark River.

N. J., Jersey City—Docks—City Comn. plans, Craven Point. C. A. Van Keuren, City Engr.

N. J., Jersey City—Elevated Railway—Joseph Dixon Crucible Co., Monmouth St., plans line to connect factory on Railroad Ave. with Pennsylvania R.R. elevated system.

N. J., Lockport—Seawall—City Comrs. making plans for concrete seawall, 1 mi. About $275,000.

N. J., Long Branch—(Official)—Jetty—City receiving bids Oct. 3 for concrete jetty at beach at West End. A. D. Sherman, City Clk. (See adv.)

N. J., Rutherford—Elimination Grade Crossings—Erie R.R. plans, 4 grade crossings at Park Ave. R. S. Parsons, 50 Church St., New York, Ch. Engr.

N. J., Trenton—Bulkhead—American Bridge Co. Warren St., plans, along Delaware River at plant.

Penn., Chester—Pier and Bulkhead—Chester Shipbuilding Co., Ltd., receiving bids Sept. 30. G. L. Skolfield, Civil Engr. Noted July 20.

Penn., Erie—Elimination Grade Crossing—City's share of cost of eliminating grade crossing over Parade at 14th St. about $20,090.

Penn., Erie—(Official)—Retaining Wall—City receives bids in spring for retaining wall of subway and paving of streets. F. G. Lynch, City Engr. Noted Sept. 7.

Penn., Newmanstown—Fire House—City plans, 2-story, 42x120-ft., brick. About $18,000. J. Keath, Fire Ch.

Penn., Pittsburgh—Shelter House—City to build, Return St. near water basin, 24th Ward, about $5,000. Robert Swan, City Engr.

Penn., Reading—Elimination of Grade Crossings—F. H. Snow, State Engr., and A. Sanders, County Engr., announced Berks County plans to eliminate grade crossings, also install new crossing signals.

Penn., Wilkinsburg—Market—Wilkinsburg Public Market Co. making plans, Franklin and Mulberry St. About $60,000. D. Simpson, Pittsburgh, Arch. Noted Aug. 3.

N. C., Greensboro—Coal Chutes—Southern Ry. plans. B. Herman, 1300 Pennsylvania Ave., Washington, D. C., Ch. Engr. M. W. and Struct.

Ga., Macon—Steam Shovel—Bibb County plans to purchase. Address R. L. McKenny, Macon.

Fla., Bunnell—Dock—Dowling-Shands Lumber Co. plans extension to dock at St. Johns Park.

Fla., Ft. Lauderdale—Ship Terminals—Howard Transportation Co. plans, East Coast inland waterway.

Fla., Miami—Recreation Pier and Aquarium—M. Elser plans, Biscayne Bay. About $100,000.

Fla., Pensacola—Dry Docks—Ollinger-Bruce Dry Dock Co. plans, Gulf Coast.

Fla., St. Petersburg—Seawall—D. C. Cook, Elgin, Ill., plans 12,200 ft. rein.-con. seawall, swimming pool, dredge harbors and other improvements. M. E. Benjamin, Arch.

Ohio, Bellefontaine—Subway—Logan County plans $11,000 bond issue for share of Carlisle-Silver Lake Subway improvement to be undertaken by Cleveland, Cincinnati, Chicago & St. Louis Ry. and Toledo & Ohio Central Ry. C. A. Paquette, Cincinnati, Ch. Engr. of former and J. A. Stocker, Columbus, of latter.

Ohio, Cleveland—Comfort Stations—City plans, 3, one at Euclid Ave. and 55th St., Broadway and 55th St. and St. Clair and 105th St. R. Hoffman, City Engr.

Miscellaneous (Continued)

Ohio, Columbus—Flood Protection—City Council votes in November on $3,500,000 bonds. Noted Jan. 27.

Ohio, Dayton—Fire Station—City soon receives bids, 2-story, 40x50-ft. G. A. Niehus, 25 Callahan Bldg, Arch. Noted Aug. 3.

Ohio, Delaware—Subway—City making plans, under tracks of Hocking Valley Ry. at West Central Ave. G. S. Irwin, City Engr.

Ohio, Lima—Elimination Grade Crossing—City and Lake Erie & Western R.R. plans, Metcalf grade crossing and enlarging railroad yard. About $75,000. J. K. Conner, Washington and Noble St., Indianapolis, Ch. Engr. A. L. Metheny, Dir. Pub. Ser.

Ohio, Lorain—Bathhouse—City plans. About $25,000. C. M. Osborne, City Engr.

Ohio, Lorain—Park Improvements—Council approved plans of M. H. Horvath, 649 Leader-News Bldg., Cleveland. C. M. Osborne, City Engr. Noted June 29.

Ohio, Norwood—Subway—City election in November to vote on $35,000 bonds for paving portion Beech St., bituminous macadam, also building subway under tracks of Baltimore & Ohio Southwestern R.R. J. G. Schmidt, City Engr. Noted Mar. 30.

Ohio, Sebring—Swimming Pool—City plans, 50x150-ft.

Ohio, Youngstown—Bathhouse—City making plans for addition, Lincoln Park. L. Evans, Supt. Parks.

Ind., Evansville—Market House—City making plans, 1-story. About $50,000. J. D. Saunders, City Engr. C. Shopbell & Co., 707 Furniture Exchange Bldg., Arch. Noted Aug. 17.

Ind., Sullivan—Park—City plans. J. M. Dudley, Clk. La Sure & Hill, 220 Central National Bank Bldg., Peoria, Ill., Landscape Arch.

Ind., Terre Haute—Parks—City Park Bd. plans park system. About $60,000. Frank A. Rattman, City Engr.

Mich., Charlotte—Lake—City plans, Bennett Park.

Mich., Detroit—Skating Rink—Detroit Arena plans, 100x304-ft. rein.-con. About $50,000. A. Kahn, Trussed Concrete Bldg., Arch.

Mich., Owosso—Park—City votes in November on bonds for park. E. S. Brewer, City Engr.

Ill., East Peoria—Dike—City plans to spend $25,000, concrete.

Ill., Evanston—Seawall—Comr. Pub. Wks. received no bids Aug. 31 for seawall along shore Lake Michigan. Noted Aug. 24.

Ill., Peoria—Pier—City plans, Hancock and Green St. About $100,000. L. D. Jeffries, City Engr.

Wis., La Crosse—Pier—La Crosse Park Comrs. making plans for recreation pier, boat garage and club house. About $60,000. W. S. Wood, Batavian Bank Bldg., Engr.

Iowa, Council Bluffs—Underground Highway Crossings—Chicago, Rock Island & Pacific Ry. and Chicago, Milwaukee & St. Paul Ry. plan. R. H. Ford, La Salle St. Station, Chicago, Ch. Engr. Track Elevation Chicago, Rock Island & Pacific Ry.

Minn., Benson—Straightening River—Swift County soon receives bids for straightening and deepening Chippewar River, 11 mi. R. R. Johnson, Benson, Engr. W. A. Foland, Clk. Dist. Court.

Minn., Minneapolis—Bathhouse—City plans. About $5,000. F. W. Cappelin, City Engr.

Minn., Minneapolis—Fire Stations—Fire Dept. asked Council to appropriate $183,000 for fire stations at 3rd Ave., S., and 12th St., Oake Dale Addition, and 19 North 4th St.

Minn., St. Paul—Mausoleum—St. Paul Mausoleum Co. soon receives bids, 1-story, 70x140-ft. About $350,000. Buechner & Orth, 500 Shubert Bldg., Arch.

Kan., Independence—(Official)—Shelter House—A. C. Stitch receiving bids about Feb. 1. About $15,000. C. K. Birdsall, 1002 Commerce Bldg., Kansas City, Mo., Arch. Noted Aug. 17.

Neb., Lincoln—Tunnel—City making plans, 200-ft. J. W. Salmon, Orpheum Bldg., Arch. L. Mathews, Secy. State Bd. Control.

Neb., Norfolk—Park—City votes Sept. 25 on $15,000 bonds. H. H. Tracy, City Engr.

N. D., Bismarck—Road Machinery—Comrs. voted $8,000 for road machinery.

Mont., Miles City—Sales Pavilion—Miles City Horse Co. plans. About $20,000.

Mont., Roundup—Grandstand—Plans being made for addition to grandstand at fair grounds. About $6,000.

Mo., Kansas City—Pavilion—Park Bd. plans. T. C. Harrington, Secy. Park Bd.

Mo., St. Louis—Dock—Bd. Pub. Ser. receiving bids Sept. 29. North Market St., Municipal Dock. About $200,000. W. T. Findly, Secy. Bd. Pub. Ser. S. W. Boen, Engr. Noted Apr. 6.

Mo., St. Louis—Street Cleaning Machine, Dir. Streets and Sewers applied to Bd. of Estimate and Apportionment for permission to purchase street cleaning machine. About $16,800. E. R. Kinsey, Pres. Bd. Pub. Ser.

Mo., St. Louis—Tunnel—Anheuser-Busch Brewing Association granted permit for tunnel under Broadway from Arsenal to Pestalozzi St. Noted Sept. 7.

Ark., Argenta—Improving River Bank—City plans. About $25,000. Miller Engineering Co., Little Rock, Engr.

Tex., Dallas—(Oak Cliff)—Natatorium—J. W. Gardner making preliminary plans.

Tex., Galveston—Dike—Galveston Commercial Association considering plans for dike along city limits. About $175,000. E. R. Cheesborough, Pres. Assoc.

Tex., Houston—Wharfs—City receiving bids Sept. 29 for Wharfs Nos. 2 and 3 at Houston Turning Basin. E. E. Sands, City Engr.

Tex., Houston Heights—Playgrounds—City plans $150,000 bond issue for playgrounds, schools and street improvements. E. E. Sands, City Engr.

Tex., Orange—Bathhouses—O. R. Sholard, C. L. Hannah and J. Pearce plans bathhouses at mouth of Sabine River.

Tex., San Antonio—(Official)—Asphalt Plant—City receiving bids Sept. 25 for purchase of asphalt mixing plant. F. Fries, City Clk. (See adv. Sept. 14 issue.)

Wash., North Yakima—Market—Incorporated Co. made plans, 1-story, 100x130-ft. About $16,000. H. Weatherwax, 25 Yakima National Bank Bldg., Arch.

Ore., Astoria—Dock Improvements—Port Comn. making plans. About $75,000. Noted Mar. 16.

Calif., Beaumont—Elimination Grade Crossing—State R.R. Comn. directed Southern Pacific Co. to build overhead crossing over county highway. About $12,510, railroad to pay $5,025, county balance. W. Hood, Flood Bldg., San Francisco, Ch. Engr. Southern Pacific Co.

Calif., Colton—Bulkhead—J. A. Sourwine, San Bernardino, County Engr., making plans, along Santa Ana River.

Calif., Fullerton—Dyke—United Storm Protection Dist. plans widening channel of river and building dyke, 9.75 mi. long. About $125 000. A. E. Stewart, Engr.

Calif., Long Beach—Bulkhead—City making plans, 4,300-ft. long ocean. About $75,000. A. De Ruiz, City Engr. Noted Sept. 30.

Que., Montreal—(Official)—Auto-Flushers—Bd. Control receiving bids in December for 10 auto flushers and 10 auto sweepers. P. E. Mercier, Ch. Engr. and City Surv. Noted Aug. 24.

Que., Montreal—Bathhouse—City Council making plans, Amherst St. A. Chausse, City Hall, Arch.

Bids In and Contracts Awarded

R. I., Providence—Mausoleum—Estate B. B. Lederer, 100 Stewart St, let contract to J. BURNS GRANITE CO., 840 North Main St. About $25,000.

N. Y., New York—(Brooklyn)—(Official)—Comfort Station—City let contract, Ft. Hamilton Park, to FINNAN & LEE, 155 Rogers Ave., $5,755. Noted Sept. 14.

N. Y., New York—(Brooklyn)—(Official)—Subsurface Railroad—Contract Sect. No. 1-B, Route No. 12, part of Broadway-Fourth Avenue Rapid Transit R.R. to DEGNON CONTRACTING CO., 30 East 42nd St., $810,265. Noted Aug. 31.

N. Y., New York—(Brooklyn)—Track Installation—Low bids received Sept. 18 for installing tracks on portion Culver Rapid Transit R.R. from Kaufman & Garcey, 51 Chambers St, Manhattan, $103,680; Ward & Tully, Inc., 38th St. and 10th Ave., Brooklyn, $135,970; Thomas Crimmins Contracting Co., 444 East 69th St., Manhattan, $151,813. Noted Sept. 14.

N. Y., New York—(Manhattan)—(Official)—Station Finish—Contract station finish on 3 stations of Broadway-Fourth Avenue Rapid Transit R.R. let to SERBER-STANDER CO., 118 East 28th St., $149,324. Noted Aug. 31.

N. Y., New York—(Manhattan)—(Official)—Track Installation—Pub. Ser. Comn. approved award of contract for track installation on Seventh Avenue Branch of Lexington Avenue Rapid Transit R.R. to ENGEL & HEVENOR, 220 Broadway, $229,440. Noted Sept. 14.

N. Y., New York—(Queens)—(Official)—Elevated Railroad Improvements—Pub. Ser. Comn. approved award of contract by Interborough Rapid Transit Co. for hoisting and installing third-rail on Queens Rapid Transit Lines to THOMAS CRIMMINS CONTRACTING CO., 444 East 69th St., about $22,300.

N. Y., Ogdensburg—Dam—Comrs. Cranberry Lake and Oswegatchie River let contract, Cranberry Lake, to WALTER BRADLEY, Fulton, $23,347.

N. J., Hoboken—Firehouse—City Comrs. let contract additions to R. J. RATH, 259 6th St., $59,630.

N. J., Oakhurst—Swimming Pool—Contract let to TOMPKINS & MATHER, Red Bank. About $10,000.

N. J., Trenton—Elimination Grade Crossing—Pennsylvania R.R. let contract, Whitehead's Rd. and East Clinton Ave., to J. A. KELLEY CO., Philadelphia. About $80,000. Noted Mar. 2.

N. J., Westfield—(Official)—Park Improvements—Bd. Park Comrs. received low bids Sept. 13 from C. W. Lawrence Co., 20 Clinton St., Newark, $20,506; J. F. Shanley Co., 306 Essex Bld Newark, $21,583; G. Scott, Irvington, $28,1 C. H. Van Doren, Secy. J. Wallace Higgin Vanderbilt Ave., New York, Landscape Eng Noted Aug. 31.

Penn., Erie—(Official)—Drift Catcher—City l contract to F. G. DIEFENDORF, Erie, $8,942. T Hanlon, City Clk. Noted Sept. 7.

Penn., Philadelphia—Bulkhead Improvements Low bids received, Snyder St., Delaware Rive from American Dredging Co., Market & Mercha Bldg., $22,400, and Bowers Southern Dredging C $26,000.

Penn., Philadelphia—Fire Engine House—Cit let contract, 3-story, to E. F. FONDER, Land Title Bldg. About $15,000. Noted Aug. 24.

Penn., Philadelphia—Locker House—Electri Storage Battery Co. let contract 19th and Al legheny Ave., to WILLIAM STEELE & SONS 1600 Arch St. About $10,000.

Penn., Philadelphia—Removal of Fence—Di Wharves, Docks and Ferries received lowest bid Sept. 1 for removal of mud fence acting as temporary bulkhead at Baltimore & Ohio Railroad Co. pier at Snyder Ave. from American Dredging Co., Marine and Merchants Bldg., $22,400 F. L. Stuart, Baltimore, Ch. Engr. Baltimore & Ohio Railroad Co.

Md., Baltimore—Comfort Station—Board Awards City Hall, receives low bids, Richmond Market, from Consolidated Engineering Co., 243 Calvert Bldg., and J. L. Robertson, 101 West 29th St.

Md., Baltimore—Comfort Station and Shed United Railways let contract, 1-story, 51x90-ft., Callow Ave. Terminal on Park Ave., to R. B MASON, 308 West Madison St., Baltimore.

D. C., Washington—Mausoleum—Zeelopi Estate let contract, Rock Creek Cemetery, to C. J. CASSIDY, Southern Bldg., $23 500. Noted Aug. 3

Miss., Clarksdale—Levee Work—Yazoo-Mississippi Delta Levee Bd. let contract, 3,000,000 cu.yd., to BANISTER & CO., Marks, $0.24 per cu.yd. Noted Mar. 16.

Miss., Greenville—Levee—Mississippi Levee Comrs. let contract 82,000 cu.yd. Princeton Levee on Washington County Front, to DAVE ELKAS & CO., Lecta, $28,700.

Miss., Leota Landing—Levee—Washington County let contract Princeton Levee to DAVE ELKAS & CO., Leota Landing.

La., New Orleans—Levee—Contract Barbin Landing South Levee 100,000 cu.yd. let to C. NORDSTROM, 15.18c. per cu.yd.

Tenn., Pittsburg Landing—Monument—United Daughters Confederacy let contract, Shiloh National Park, to MT. AIRY GRANITE AND CUTTING CO., Mt. Airy, N. C. About $50,000.

Ky., Louisville—Park Pavilion—Park Comrs. let contract, 1-story, 32x47-ft., to FREY PLANING MILL CO., 418 East Breckenridge St. Noted Nov. 18.

Ohio, Cleveland—(Official)—Stadium—City let contract, Brookside Park, to BRANDT & WEITZ, 517 Euclid Ave., $16,324. Noted Aug. 24.

Ohio, Cleveland—Subway—Contract subway approaches to Detroit-Superior high-level bridge let to BATES & ROGERS CONSTRUCTION CO., $625,000. Noted May 4.

Ohio, Dayton—(Official)—Dam—Dir. Pub. Serv. received low bid for Island Park Dam from Price Bros. Co., East Jordan, Mich. Noted Sept. 14.

Ind., Indianapolis—Park Improvements—Bd. Park Comrs. let contract grading Rhodius Park at Belmont Ave. and Wilkins St. to C. C. KING & SON.

Ill., Chicago—Park Building—South Park Bd. Comrs. received low bid, 1- and 2-story, Archer and Western Ave., McKinley Park, from M. A. Pillinger Co., 11 South La Salle St. About $125,000.

Mo., Mexico—Natatorium—Harding College let contract, 1-story, 40x60-ft., to G. F. ELLIOTT. About $10,000. Noted July 27.

Ark., Arkansas City—Levee—Desha County let contract levee work, Mississippi River, right bank, O'Possum Fork to Lecca Levee, to R. T. CLARK, Natchez, Miss.

Ark., Lake Village—Levees—Chicot County let contracts to R. NICHOLSON and M. C. WILLIAMSON, Milliken, La., for Carmichael Levee, Willow Lake Levee and drainage ditch at Willow Lake.

Tex., Sherman—Fire Alarm System—City let contract to GRAYSON TELEPHONE CO. About $10,000.

Calif., Richmond—Fill—Contract earth and rock fill on north side of municipal wharf let to MOFFETT & MEAD, Monadnock Bldg., San Francisco.

Calif., Richmond—Wharf—Standard Oil Co. let contract, rein.-con., to HEALY-TIBBITTS CONSTRUCTION CO., 9 Main St., San Francisco. $60,000.

Calif., San Diego—Concrete Ford—Contract, Otay River at National Ave., let to H. G. FENTON, Owl Drug Bldg., San Diego, $8,575.

Ont., Port Colborne—Breakwater—City let contract rein-con. addition to west breakwater to K. MORRISON, Welland. About $20,000.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Mass., Boston—Club House—Bunker Hill Boys' Club of Charleston making plans, 2- and 3-story, 70x164-ft. About $125,000. O. A. Thayer, 89 Franklin St., Arch.

Mass., Boston—Studio—Charles H. Ditson, 8 East 34th St., New York, receiving bids, 10-story, 52x107-ft. marble. Townsend, Steinler & Haskel, 1328 Broadway, New York, Arch.

Mass., Medford—High School—City received lowest bid from W. Crane, Hayward St., Cambridge, $125,945. Noted June 22.

Mass., Middleboro—High School—City making plans. E. I. Wilson, 101 Tremont St., Boston, Arch.

Mass., New Bedford—School—City voted $65,000 bonds for school improvements. Address Clk. School Bd.

Mass., Norwood — High School — City plans, 3-story. J. H. Ritchie, 8 Beacon St., Boston, Arch.

Mass., Shirley—Chapel and Administration Building—Industrial School for Boys receiving bids Sept. 18. Densmore & Le Clear, 88 Broad St., Boston, Arch. Noted Aug. 24.

Mass., Springfield—Hotel—Albert Karp plans, 6-story, Pynehon St.

Mass., Washington—School—National Cathedral School for Girls making plans for addition. About $100,000. H. Vaughan, 20 Pemberton Sq., Boston, Arch.

Mass., Waverly—Nurses Home—McLean Hospital making plans, 3-story, 55x165-ft., brick. Bigelow & Wadsworth, 3 Hamilton Pl., Boston, Arch.

Conn., Bridgeport—C. T. Davis plans brick and stone building at Main and Franklin St. About $200,000.

Conn., Bridgeport—Health and Charities Bds. plans building. About $75,000 now available. F. W. Behrens, Jr., Pres. Charities Bd.

Conn., Hartford—(Official)—Y. W. C. A. receiving bids Nov. 1 for 5-story building. About $210,000. L. E. Jallade, 37 Liberty St., New York, Arch. Noted Sept. 7.

Conn., Stamford—High School—City plans. About $250,000.

N. Y., Amityville—Club House—America Air-Craft Co. making plans, 2-story, 50x100-ft. club house, hangars and aviation field. About $150,000. Chester Huntington, Richmond, Mass., Arch. and Engr.

N. Y., Geneva—Auditorium and Administration Building—New York State Experimental Station D making plans, 2-story, Castle St. About $130,000. L. F. Pilcher, Capital, Albany, State Arch.

N. Y., Groton—Church—P. E. Church plans. W. S. Stevens, Moravia, Rector.

N. Y., Hudson—(Official)—Home-State Volunteer Firemen's Association to receive bids in January. About $80,000. J. E. Powers, Ossining, Secy. Noted Sept. 7.

N. Y., Johnson City—Church—First Baptist Church made plans, brick and stone, Main St. and Johnson Ave. About $50,000. Jewell & Hayes, 415 Phelps Bldg., Binghamton, Arch. Noted Aug. 24.

N. Y., New Hampton—Dept. Correction, Municipal Bldg., New York, soon lets contract for 3-story, 40x240-ft. receiving and administration building. About $170,000. C. B. Myers, 1 Union Sq., New York, Arch. Noted Aug. 24.

N. Y., New York—(Bronx)—School Bd. Education, Park Ave. and 59th St., Manhattan, receiving bids Sept. 27, 184th St. and Fairfield Pl. C B. J. Snyder, Supt. School Bldgs.

N. Y., New York—(Brooklyn)—(School)—(Official)—Bd. Education, Park Ave. and 59th St., Manhattan, receiving bids Sept. 25, Wilson St. B. J. Snyder, Supt. School Bldgs.

N. Y., New York—(Manhattan)—School—City receiving bids, 10-story, 75x100-ft. terra cotta, 22d St. and Lexington Ave. About $500,000. C. B. Snyder, 500 Park Ave., Arch.

N. Y., New York—(Manhattan)—Studio—Penryhn Stanlaws and Walter Russell, 52 Vanderbilt Ave., plan, 14-story, 50x100-ft., brick, at 2 West 67th St. Rich & Mathesius, 320 5th Ave., Arch.

N. Y., New York—(Manhattan)—(Official)—Theater—G. Konta, 120 Broadway, receiving bids, 2-story, 50x199.10-ft., brick, about $250,000. T. W. Lamb, 644 8th Ave., Arch.

N. Y., Peekskill—Hotel—Rawleigh Hotel soon receives bids, 4-story. R. G. Swartwout, Realty Bldg., White Plains, N. Y., Arch.

N. Y., Plattsburg—City Hall—City soon receives bids. About $200,000. J. R. Pope, 527 5th Ave., New York, Arch. C. B. Barnard, Clk.

N. Y., Rochester—High School—Bd. Education making plans, 3-story, 220x220-ft. About $300,000. Gordon & Madden and W. G. Kaelber, 300 Sibley Blk., Arch.

N. Y., Rochester—Clubhouse—Forest Lawn Association made plans. C. Storrs Borrows, Arch.

N. Y., Saratoga Springs—Redemptorist Fathers, St. Clement's College, making plans for chapel, dormitory, infirmary, convent and church. About $300,000. G. P. Gunther, Lake Ave., Arch.

N. Y., Syracuse—School—Sacred Heart Society making plans, 2-story, 76x154-ft. About $50,000. Merrick & Randall, 705 S. A. & K. Bldg., Arch.

N. Y., Utica—City Hall—City plans. C. P. Bannigan, City Clk.

N. J., Asbury Park—Auditorium—McKim, Mead & White, Arch., 101 Park Ave., New York, making plans, about $500,000. Address City Clk.

N. J., Bridgeton—High School—City Council voted $125,000 bonds. Noted June 1.

N. J., Montclair—Theater—McNally Securities Co., New York, plans, Valley Rd. About $40,000.

N. J., New Brunswick—Hospital—City receiving bids Oct. 10. About $15,000. William H. Boylan, 390 George St., New Brunswick, Arch. Noted Sept. 7.

N. J., Paterson—School—Bd. Education making plans, 3-story, Broadway between Graham Ave. and 18th St. About $225,000. H. B. Crosby, First National Bank Bldg., Arch.

N. J., Pennsgrove—Theater—Pennsgrove Improvement Co. making plans. Moffett & Stewart, Camden, Arch.

Penn., Chester—City Hall—City making plans, 3-story. About $65,000. C. W. Brazier, 1133 Broadway, New York, Arch. Noted May 11.

Penn., Drexel Hill — School — St. Andrews Church making plans, 3-story. G. I. Lovatt, 418 Walnut St., Philadelphia, Arch.

Penn., Drexel Hill—Church—St. Andrew's Parish plans, 3-story. G. I. Lovett, Arch.

Penn., Easton—Hospital—Easton Hospital Association receiving bids about Jan. 1, 3-story, 173x235-ft. About $150,000. W. M. Michler, Easton, Arch. Noted July 20.

Penn., Gettysburg—High School—City votes in November on $70,000 bonds. Address Clk. School Bd.

Penn., Greenville—High School—Bd. Education making plans. About $125,000, bonds voted. C. C. and A. L. Thayer, New Castle, Arch. Noted Sept. 14.

Penn., Harrisburg—School—School Bd. plans 2 schools. About $1,090,000.

Penn., Johnstown—Hospital—Memorial Hospital making plans, 5-story, 85x125-ft. addition. About $100,000. W. R. Myton, First National Bank, Arch.

Penn., Loretto—Plans being made for new buildings and additions to St. Francis College. About $500,000, of which C. M. Schwab will contribute one-half.

Penn., Millersburg—Library—City plans Johnson Public Library and Gymnasium. About $50,000.

Penn., Sharpsburg—High Shcool—City plans. About $100,000.

Penn., South Bethlehem—Church—St. Johns Magyar Church making plans, 1-story, 85x161-ft. About $60,000. A. W. Leh, South Bethlehem, Arch.

Md., Frostburg—Dormitories—Frostburg Normal School plans 3-story. C. M. Anderson, 324 North Charles St., Arch.

Va., Norfolk—Schools—School Bd. requested Dept. Finance to issue $182,000 bonds for 2 schools.

Va., Richmond—Church and Sunday School—Grace Covenent Presbyterian Church making plans, brick and stone. About $95,000. Ferguson, Calrow & Wrenn, Virginia National Bank Bldg., Norfolk, Arch.

Va., Richmond—Hospital—Memorial Hospital, 14th and Richmond St., making plans for 5-story addition. About $230,000. Noland & Baskerville, Richmond, Arch. Noted May 11.

W. Va., Charleston—Bank and Office—Kanawha Banking and Trust Co. receiving bids about Dec. 1 9-story, 47x80-ft: About $200,000. Dennison & Hirons, 475 5th Ave., New York, Arch. Noted Aug. 3.

N. C., Greenville—Hospital—Pitt County votes Dec. 5 on $50,000 bonds.

S. C., Gaffney—Limestone College plans library, science hall, music room and gymnasium. L. D. Lodge, Pres.

S. C., Greenville — (Official) — Hospital—City election Sept. 26 to vote on $60,000 bonds. W. F. B. Haynsworth, City Engr. Noted Apr. 27.

Ga., Atlanta—Office—Exposition Cotton Mills making plans. Walker & Chase, Candler Bldg., Arch.

Ga., Atlanta—Y. M. C. A. plans association building. About $100,000. W. White, Chn. Bldg. Com.

Ga., Empire—High School—City plans.

Ga., Moultrie—Theater—R. J. Corbett soon lets contract. About $40,000

Fla., De Land—School—Bd. Pub. Instruction of Volusia County receiving bids Sept. 25, Rick and Clara Ave. About $50,000. F. M. Miller, Arch. Noted Apr. 27.

Fla., Jacksonville — (Official)—Union Depot—Jacksonville Terminal Co. receiving bids in January. About $300,000. K. M. Murchison, 101 Park Ave., New York, Arch. Noted Aug. 24.

Ala., Marion—Dormitory—Marion Institute plans.

Ala., Montgomery—City Hall—City votes Oct. 17 on $300,000 bonds. S. E. Washburn, City Engr. W. T. Robertson, Mayor. Noted Sept. 7.

Miss., Gulfport — Schools — Harrison County plans to spend about $100,000 for 6. Address County Clk., Gulfport.

Tenn., Murfreesboro—High School—City votes Sept. 25 on $75,000 bonds. G. B. Giltner, Mayor. Noted Aug. 3.

Ky., Shelbyville—High School—Bd. Education soon receives bids, 3-story, 60x125-ft. About $50,000. Joseph & Joseph, Atherton Bldg., Louisville, Arch. Noted June 8.

Ohio, Akron—Temple—Masonic Lodge making plans, 7-story, Mill and High St. About $225,000. P. H. Schneider, Chn. of Campaign Com.

Ohio, Bucyrus—School—Bd. Education receiving bids Sept. 26, Bucyrus Consolidated Dist. Noted June 29.

Ohio, Cincinnati—(Official)—Fenwick Club and Boys' House receiving bids about Oct. 15 for rein.-con. building. About $200,000. Theis & Theis, Dayton, Arch. Noted Aug. 31.

Ohio, Cleveland—Jail—City votes in November on $1,000,000 bonds.

Ohio, Dayton—Temple—Pythian Castle Co. receiving bids about Oct. 25, 3-story, 90x118-ft. About $150,000. Pretzinger & Musselman, 1155 Reibold Bldg., Arch. Noted Aug. 10.

Ohio, Jacksontown—Grade and High School—Bd Education receiving bids Sept. 26.

Ohio, Lakewood—Building—Cleveland Telephone Co. plans addition, 3-story. About $55,000. Hubbell & Benes, Arch.

Ohio, Lancaster—Church—Emanuel Evangelical Lutheran Church rejected bids received Sept. 5. About $50,000. Noted June 22.

Ohio, Lima—School—City voted $490,000 bonds. McLayghin & Hulsken, Lima, Arch. Noted Aug. 3.

Ohio, Pleasant City—Grade and High School—Bd. Education receiving bids about Nov. 1, 2-story, 65x110-ft. Matheny, Allen & Mountz, 311 Huntington National Bank Bldg., Columbus, Arch. Noted Apr. 6.

Ohio, Portsmouth—(Official)—School—Bd. Education receiving bids about Sept. 25. About $60,000. Ritter & Bates, Arch. Noted Sept. 7.

Ohio, Portsmouth—Bank and Office—Security Savings Bank and Trust Co. making plans 3-story, 42x122-ft. About $60,000. Ritter & Bates, 45 First National Bank Bldg., Arch. Noted Mar. 2.

Ohio, Tippecanoe City—School—City voted $60,000 bonds.

Ohio, Willoughby—Andres Institute for Girls making preliminary plans for buildings. About $500,000. F. Warner, 718 North Hippodrome Bldg., Cleveland, Assoc. Arch.

Ohio, Wooster—Bank—People's Savings Bank and Loan Co. plans, Public Sq. J. W. Hocke, Secy.

Ind., Auburn — Jail — Dekalb County plans. About $45,000.

Ind., Indianapolis—School—Tudor Hall, care of Fredinia Allen, 1550 North Meridian St., making plans, 2-story. About $80,000. H. Foltz, 1456 Lemcke Ave., Arch.

Ind., Kokomo—Pennsylvania R.R. making plans for office building and freight depot. About $100,000. S. W. Hodgin, Union Station, Richmond, Arch. and Engr.

Ind., Mishawaka—(Official)—Bank and Office—Mishawaka Trust and Savings Co. receiving bids Nov. 1 for 5-story. About $90,000. Enis R. Austin, South Bend, Arch. Noted Aug. 24.

Ind., Sullivan—Hospital—Sullivan County Hospital soon lets contract. Kennerly & Spiegemeyer, St. Louis, Arch. Noted Aug. 17.

Ind., Terre Haute—Science Hall—Indiana State Normal College made plans, 2-story. About $100,000. G. Maclucas & Fitton, 1151 Lemcke Annex, Indianapolis, Arch. Noted July 20.

Mich., Bay City—Hospital—Mercy Hospital, 15th and Howard St., plans addition. About $100,000.

Mich., Clare—Bank—City National Bank making plans. Nachstegal Co., 237 Front Ave., Grand Rapids, Arch.

Mich., Detroit—School—Bd. Education receiving bids Sept. 26, McMillan Ave. C. A. Gadd, Secy. Noted Sept. 7.

Mich., Grand Rapids—Hospital—City plans, 3-story.

Mich., Holland—Hotel—Hermanus Boone making plans, 5-story. About $100,000.

Mich., Highland Park—Police Station—City votes in fall on $75,000 bonds. Plans made.

Mich., Springport—Springport Savings Bank making plans for building on Main St.

Ill., Chicago—Settlement House—Christopher House making plans, 2-story, 120x140-ft. About $50,000. Brown & Walcott, 19 S. La Salle St., Arch. O. Edmonds, 1618 Fullerton Ave., Mgr.

Ill., Chicago—Store, Lodge and Office—W. Armstrong & Co., Arch., 25 North Dearborn St., making plans, 3-story, 80x92-ft. About $60,000.

Buildings (Continued)

Iowa, Clarinda—High School—Bd. Education receiving bids about Sept. 30. About $60,000. C. Stainbaugh, 436 Brandeis Theater Bldg., Omaha, Neb., Arch.

Iowa, Titonka—School—Bd. Education receiving bids Oct. 3, 3-story, 57x95-ft. Broten & Mincy, Mason City, Arch. About $40,000. Noted Aug. 24.

Minn., Owatonna—High School—City votes Sept. 30 on $150,000 bonds. Noted Sept. 7.

Kan., Seneca—City Hall—City receiving bids Sept. 26. J. T. Campbell, City Clk. G. A. Shaul, Arch. Noted June 29.

Tex., Taylor—(Official)—Hotel—Bland, Mars & Zilker receiving bids about Jan. 1. About $50,000. H. Bland, interested. Noted Sept. 7.

Okla., Alva—School—City voted $75,000 bonds. Address School Bd.

Okla., Okmulgee—Courthouse—Okmulgee County receiving bids Sept. 28, 4-story, 103x105-ft. About $130,000. C. E. Hair & Co., 417 Terminal Bldg., Oklahoma City, Arch. Noted Aug. 10.

Colo., Pueblo—Auditorium and City Hall—City Council receiving bids Sept. 30. About $220,000. W. W. Stickney, Arch. J. Jackson, City Clk. Noted Feb. 24.

N. M., Anthony—School—School Dist. No. 16 receiving bids Oct. 2. V. Gutierrez, Chn.

Idaho, Gooding — Administration Building — Good College let contract to W. M. CLIFTON, Boise. About $80,000. Noted Aug. 10.

Ore., Bend—Hotel—Phillip Brooks, Vancouver, B. C., and F. W. Sullivan, Bend, made plans, 3-story. About $80,000.

Bids In and Contracts Awarded

Mass., Boston—Theater—Beacon Theater Co., 47 Tremont St., let contract, 5-story, to J. McGRAW & SONS, 128 Washington St.

Mass., Holyoke—Hospital—City received lowest bid, 2-story, 38x110-ft., brick, from M. J. Walsh & Son, Holyoke, $77,600. Noted Aug. 17.

Mass., Medford—City Hall—City received low bids, 3-story, from William Crane, Hayward and Amherst St., Cambridge, $125,945; C. S. Cunningham & Sons Construction Co., 7 Water St., Boston, $128,200; S. S. Cunningham & Sons Co., 101 Tremont St., Boston, $130,686. Noted June 29.

Mass., Medford—High School—City let contract, 3-story, to C. S. CUNNINGHAM & SONS CONSTRUCTION CO., 7 Water St., Boston, $128,200. Noted June 22.

Mass., Milton—School—Morgan Construction Co., Norris Blk., East Milton, $160,156, submitted lowest bid for addition. Noted Aug. 24.

Mass., New Bedford—New Bedford Women's Club received lowest bid for 2-story brick and granite building from L. B. Davis Corporation, New Bedford.

Mass., Springfield—New England Telephone and Telegraph Co. let contract 3-story, 30x100-ft. addition to building at Dwight and Worthington St. to F. T. LEY & CO. About $125,000. Noted Sept. 7.

Conn., New Britain—School—City let contract New Burritt School to T. W. CROWE, 64 Grove Hill St., $118,000. Noted June 29.

N. Y., Auburn—Grade School—Bd. Education let contract masonry 55x120-ft. addition to V. BARNES, 55 Wall St. About $50,000.

N. Y., Clinton—Hospital—State rejected bids, 2-story, 70x100-ft. About $65,000. L. F. Pilcher, Capitol, Albany, Arch.

N. Y., New York—(Manhattan)—Hotel—New York Central Railroad Co. let contract, 28-story, Lexington Ave., 42d, 43d and viaduct street linking 4th and Park Ave. to GEORGE A. FULLER CO., 111 Broadway. About $9,000,000. Building leased by Bowman Hotel Corporation.

N. Y., Riverhead—City let contract 3-story, 35x90-ft. treasurer's building to BARNETT CONSTRUCTION CO., 150 Nassau St., New York. About $40,000.

N. Y., Buffalo—Hospital—Buffalo General Hospital let contract, 4-story, to J. W. COWPER CO., 143 Oakland Pl. About $150,000.

N. J., Jersey City—Building—Nurses' Home let contract to W. H. and F. W. CANE & CO. About $64,092.

N. J., Plainfield—City Hall—P. F. Kenny Co., 33 Old Broadway, New York, $102,000, submitted lowest bid. J. J. Carroll, City Clk. Noted Jan. 13.

N. J., Vineland—School—City let contract to JAMES D. PASQUALE. Noted July 20.

Penn., Chester—High School—Bd. Education received lowest bid, 2-story, 76x101-ft., from C. McCaul Co., 1713 Sansom St. Noted June 8.

Penn., New Castle—(Official)—Bank and Office—Safe Deposit and Trust Co. let contract, 6-story, to SCHULTZ, SCHREINER & CLYDE CO., Pittsburgh. About $200,000. Noted Aug. 24.

Penn., Philadelphia—School—Bd. Education let contract 2-story addition to Northeast Manual Training School to THOMAS A. REILLY, 1616 Thompson St., Philadelphia. About $332,815. Noted Aug. 10.

W. Va., Clarksburg—Hospital—Mason Hospital let contract, 4-story, 39x95-ft., to R. R. KITCHEN & CO., Wheeling. About $50,000 Noted July 6.

Ala., Athens—Courthouse—Limestone County let contract to LITTLE-CLECKLER CONSTRUCTION CO., Anniston, $124,700. Noted Aug. 10.

Miss., Clarksdale—Methodist Church let contract building to J. ALEXANDER CONSTRUCTION CO., $50,000. Noted May 4.

Ky., Berea—(Official)—Dormitory—Berea College to let no contracts. Work to be done by college force. Noted Sept. 7.

Ohio, Eaton—Courthouse—Preble County let contract to M. J. ROSCHE CO., Cincinnati, $199,161. Noted Aug. 10.

Ohio, Marblehead—Church—St. Joseph's Congregation let contract to FEICK CO., Sandusky. Noted Mar. 23.

Ind., Boswell—High and Grade School—City let contract, 2-story, 72x121-ft., to T. J. BAILEY. About $40,000. Noted June 15.

Ind., Decker—High and Grade School—City let contract, 2-story, 91x144-ft., to J. A. BEHRICK, Mt. Vernon, $45,000.

Mich., Detroit—Michigan State Telephone Co. let contract building at Whipple and Van Dyke Ave. to A. J. SMITH CONSTRUCTION CO.

Mich., Grand Rapids—School—Contract let to H. E. HOSKEN, $46,000. Noted Mar. 9.

Mich., Jackson—Hospital—City let contract, 4-story, 47x138-ft., to O. W. ROSENTHAL & CO., 80 East Jackson Blvd., Chicago, $130,000. Noted Sept. 14.

Ill., Chicago—Hotel and Store—G. E. Browne let contract, 3-story, 77x129x166-ft., to McLENNAN CONSTRUCTION CO., 30 North Michigan Ave. About $95,000.

Iowa, Irwin—(Official)—School—Bd. Education let contract to C. C. NORGAARD, Council Bluffs. About $48,890. Noted Aug. 24.

Iowa, Knoxville—High School—City let contract to J. E. TUSANT & SON CO., Des Moines, $55,386. Noted Aug. 17.

Kan., Arkansas City—City Hall—City let contract to F. A. GROSS CONSTRUCTION CO., Oklahoma City. About $60,000. Noted Aug. 24.

Mont., Billings—T. E. Gay let contract 2-story, 50x140-ft. brick building to HARRY BOYER, Billings. About $40,000.

Tex., Port Arthur—(Official)—School—School Bd. let contract to AMERICAN CONSTRUCTION CO., Houston, about $275,000. Noted Aug. 24.

Okla., Ardmore—Theater—Princess Theater let contract to STILES CONSTRUCTION CO., 209 South La Salle St., Chicago. Noted July 13.

Calif., Covina—Administration Building—Masonic Orphans Home of California let contract, 2-story, 76x126-ft., to G. H. WHYTE, Pasadena. About $75,000. Noted Mar. 2.

N. S., Antigonish—Library and Gymnasium—St. Francis Xavier University let contract, brick and stone, to J. J. GRANT, South St., New Glasgow, $50,000.

SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

SEALED PROPOSALS will be opened by the Lighthouse Inspector, Tompkinsville, N. Y., at 2 o'clock p.m., September 29, 1916, for furnishing and placing riprap for foundation for Hunts Point Light, Hunts Point, N. Y. Information upon application to the above office.

U. S. ENGINEER OFFICE, Louisville, Ky.—Sealed proposals for furnishing and delivering gray iron castings for Lock No. 41, Ohio River, will be received here until 12 noon, central time, October 2, 1916, and then opened. Information on application.

U. S. ENGINEER OFFICE, Louisville, Ky.—Sealed proposals for furnishing and delivering metal work for gate-operating machinery for Lock No. 41 Ohio River will be received here until 12 noon, central time, October 9, 1916. Information on application.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., September 11, 1916.—Sealed proposals will be opened in this office at 3 p.m., October 23, 1916, for the extension, remodeling, etc., of the United States post office at Boise, Idaho. Drawings and specifications may be obtained from the custodian at Boise, Idaho, or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

Bids received until Sept. 25, 1916.

Street Paving

Allentown, Pa.

Sealed proposals will be received at the office of the undersigned at No. 39 North Seventh St., Allentown, Pa., up to three o'clock P.M., Monday, September 25th, 1916, for the repairing of certain streets by removing the existing telford macadam and surfacing with either a sheet asphalt, bitulithic, amiesite and other approved bituminous pavement on a six-inch concrete base and other incidental work connected therewith.

Approximate quantities are as follows:

Pavement surface and base	20,200 sq.yds.
Concrete gutters	10,500 lin.ft.
Radius corners	38
Inlets and manholes	34

Alternate bids for vitrified brick and stone block paving must be made on about 2,000 sq.yds. of the above-named work.

Payment will be made in cash by the city for the whole amount of the contract based upon the engineer's estimate.

For further information address Charles D. Weirbach, City Engineer.

The right is reserved to reject any or all bids.

A. L. REICHENBACH, Mayor.

PROPOSALS FOR CONSTRUCTING TIMBER CRIB BREAKWATER—U. S. Engineer Office, 508 Federal Bldg., Chicago, Ill.—Sealed proposals will be received here until 10 a.m., Sept. 26, 1916, and then opened, for constructing timber crib breakwater at Chicago Harbor, Ill. Further information on application.

PROPOSALS FOR CONSTRUCTING RUBBLE MOUND BREAKWATER—U. S. Engineer Office, 508 Federal Bldg., Chicago, Ill.—Sealed proposals will be received here until 10 a.m., Oct. 17, 1916, and then opened, for constructing rubble mound breakwater at Chicago Harbor, Ill. Further information on application.

U. S. ENGINEER OFFICE, Room 707, Army Building, 39 Whitehall St., New York, N. Y.—Sealed proposals will be received here until 12 M., September 28, 1916, and then opened, for furnishing and trimming into U. S. dredges during the period ending September 30, 1917, 10,000 tons (more or less) of bituminous coal. Further information on application.

PROPOSALS FOR CONSTRUCTING LOCKS—United States Engineer Office, Nashville, Tenn.—Sealed proposals will be received here until 11 a.m., Sept. 28, 1916, and then opened, for constructing concrete locks E and F, Cumberland River. Further information on application

Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

New Jersey—Delaware, Lackawanna & Western R.R. plans to double-track its line from Hoboken to Dover. G. J. Ray, Hoboken, Ch. Engr.

Pennsylvania—J. I. Johnson, Johnstown, interested in railway between Portage and Martindale.

Pennsylvania—Reading Electric Railway Co. plans trolley line from Allentown to Reading. About $500,000. R. P. Stevens, Youngstown, Pres.

Pennsylvania—Schuylkill Railway Co. plans to rebuild Girardville line, Pottsville. W. S. Leib, Pottsville, Gen. Mgr.

Virginia—Southern Ry. plans to improve its lines at Lynchburg. B. Herman, Washington, D. C., Ch. Engr. M. W. and Struct.

West Virginia—Hardy County, Moorefield, Capon Dist., voted $14,500 bonds to aid building Winchester & Western R.R. to timber lands around Wardensville, 30 or 40 mi. W. B. Cornwell, Romney, interested. Noted Sept. 7.

North Carolina—Plans being made for railway from Kinston, to Wilmington. Address F. I. Smith, Secy. Chamber of Commerce.

Georgia—Flemington, Hinesville & Western Railroad Co. soon lets contract for railway from Hinesville to Glennville, about 22 mi. J. B. Way, Hinesville, Pres. and Gen. Mgr. Noted Dec. 9.

Mississippi—Gulf & Ship Island R.R. plans branch from point near Gulfport west to Kiln, about 20 mi. W. H. Gardner, Jr., Gulfport, Ch. Engr.

Tennessee—Nashville-Gallatin Interurban Ry. plans to extend Springfield line to Adairville, Ky., about 31 mi. B. C. Edgar, Nashville, Vice-Pres. and Gen. Mgr.

Ohio—Pennsylvania Lines West of Pittsburgh plan improving yards at Bradford, Ohio. T. Rodd, Pennsylvania Station, Pittsburgh, Ch. Engr.

Ohio—Pennsylvania Lines West of Pittsburgh making surveys for line from East Liverpool to Vanport, about 14 mi. T. Rodd, Pittsburgh, Penn., Ch. Engr.

Ohio—Youngstown & Southern Railway Co., Youngstown, plans to improve its lines. A. W. Hartford, Youngstown, Gen. Mgr.

Wisconsin—S. H. Peck, Portage, interested in railway from Portage to Baraboo.

Minnesota—Luce Electric Short Line Co., Hutchinson, plans railway 100 mi. long, about $500,000. E. D. Luce, Phoenix Bldg., Minneapolis, Pres.

Minnesota—Red Lake Northern Railway Co., Minneapolis, made surveys for line from Minneapolis to Canadian border. J. J. Opsahl, Mgr. Land Dept. of Red River Lumber Co., Minneapolis, interested. Noted June 1.

Kansas—Anthony & Northern Ry. plans line north from Edwards to Hays. J. E. Waite, Hutchinson, Ch. Engr.

Kansas—Hutchinson Belt Line Railway Co., Hutchinson plans belt line railway connecting all lines outside of city. O. P. Byers and H. H. Taylor, interested.

Kansas—Kansas City, Kaw Valley & Western R.R., Lawrence, making surveys for extension from Lawrence to Topeka. O. K. Williamson, Bonner Springs, Ch. Engr. Noted Feb. 10.

Kansas—Santa Fe Ry. plans to extend line from Liberal, Kan., to Des Moines, Iowa. C. W. Felt, Chicago, Ch. Engr.

Arkansas—Memphis, Dallas & Gulf Railroad Co. plans spur track from corporation line along Belding Ave. and Valley St., Hot Springs, to Grand Ave. W. P. Hart, Nashville, Ch. Engr.

Texas—Santa Fe Ry. plans extension from Ore City to Hughes Springs, 11 mi. C. F. W. Felt, Chicago, Ill., Ch. Engr.

Arizona—Arizona Extension Railroad Co. organized to build railway from Clarksdale to Mesa. J. S. Douglas, Pres.

Arizona—A. L. Garford, Elyria, Ohio, plans railway from Wockenburg to Sayre, about 16 mi.

Arizona—Western Pine Lumber and Mill Co. plans railway from Holbrook to White Mountain Lumber Dist., about 120 mi. F. H. Bowen, Red Key, Ind., Pres.

Washington—Portland Railway, Light and Power Co. plans double-track line about 2 mi. long to approach of Interstate Bridge over Columbia River between Vancouver and Portland, Ore. W. J. Morris, Portland, Supt.

Oregon—City of Prineville plans election to vote on $125,000 bonds for railway from Prineville to main line of Oregon Trunk R.R., 18 mi. west.

Ontario—Toronto Suburban Railway Co. plans to extend line from Bathurst St. east along Davenport Rd. down Poplar Plans Rd., Toronto. G. C. Royce, West Toronto, Gen. Mgr.

British Columbia—Harbor Comrs., Vancouver, plan industrial railway near False Creek.

Bids In and Contracts Awarded

Kentucky—Louisville & Nashville R.R. let contract grading line from Hazard to Walkers branch, about 1½ mi. to ADAMS & SULLIVAN, Louisville.

Missouri—Kansas City Ry., Kansas City, let contract about 4 mi. line to LITTLEFIELD, FRY & McGOUGH, about $220,000. Noted May 4.

Washington—Oregon-Washington Railroad and Navigation Co. awarded contract for line from Murray branch to Ray-Jefferson Mine, Spokane, about 10 mi., to TWOHY BROS., Portland, about $200,000. Noted Sept. 14.

LIGHT, HEAT AND POWER

Proposed Work

N. Y., Elmira—Elmira Water, Light and Railroad Co. granted franchise for electric-light plants and distributing systems in Montour, Catherine and Odessa. T. A. Brown, Engr. Noted June 1.

N. Y., Yonkers—A. Smith & Sons, Palisade Ave., plans 1-story boiler house.

Penn., Erie—Hammermill Paper Co. making plans for 3-story, 88x116-ft. power plant. About $50,000. Osborn Engineering Co., 740 Engrs. Bldg., Cleveland, Consult. Engr.

Penn., New Castle—(Official)—City receiving bids Oct. 2 for curb lights on Long Ave. and South Mill St. C. E. Brown, City Clk.

Penn., Reading—Reading Transit and Light Co plans high tension transmission line to Kutztown to furnish power to Allentown-Reading Electric Ry.

Md., Baltimore—Bd. Education appointed committee to make investigations relative to installation of electric-light plant in Normal School.

Ga., Damascus—City plans to install electric-light plant and water system.

Ga., Milledgeville—Georgia Prison Comn. plans to install electric-light plant at State Farm, Milledgeville.

Ohio, Circleville—Circleville Light and Power Co. plans to extend transmission lines to Williamsport and Clarksburg.

Ohio, Fremont—Herbrand Co. plans to spend about $200,000 for power house and plant for railway switch system.

Ohio, Middletown—Colin-Gardner Paper Co. plans to enlarge power plant.

Ind., Hartford City—Muncie Electric Light Co., Muncie, plans to improve system in Hartford City, about $10,000.

Ind., Laporte—Laporte County receiving bids Oct. 5 for electric-light and power plant. F. A. Hausheer, Laporte, County Audr. Noted Sept. 21.

Ill., Burnside—City plans to install electric-light plant. J. Wright, interested.

Iowa, Littleport—Schmidt Bros. & Co., Elkader, applied for franchise to supply electricity to Littleport and transmission line from Littleport to Elkader.

Minn., Echo—City plans electric-light plant.

Kan., Bridgeport—Gypsum Light and Power Co., Gypsum, plans to install electric-lighting system in Bridgeport.

Kan., Jetmore—Citizens voted $10,000 bonds for improving electric-light plant and water system. Noted Sept. 21.

Kan., McPherson—City plans to improve and extend electric-light plant and water system.

Neb., Beatrice—City votes Oct. 17 on $35,000 bonds for electric-light plant and system. H. M. Garrett, Clk. Noted May 11.

Neb., Burchard—City sold $4,000 bonds for electric-light plant. Noted Aug. 3.

Neb., Helvey—City plans to install electric-lighting system.

Neb., Wolbach—Martz Engineering Co., Engr., Orpheum Bldg., Lincoln, making plans for power house and distribution station. About $10,600.

Ark., Yellville—City purchased electric-light plant and plans to improve same.

Tex., Rowena—City plans to install electric-lighting system.

Okla., Alva—City plans to install electric-light plant. O. A. Hunt, Watonga, interested.

Okla., Olustee—City Council plans electric-light plant.

Okla., Skiatook — See item under "Water-Works."

Colo., Craig—Meeker Electric Co., Meeker, applied to Council for franchise to construct electric-light plant in Craig. W. Laidlaw, Meeker, Owner and Mgr.

Colo., Estes Park—City plans to purchase plant of Stanley Park Electric Light and Power Co. and to improve and extend system.

Ariz., Tempe—City plans election to vote on bonds for electric-light system. Noted Mar. 16.

Wash., Vancouver—North Coast Power Co. plans to spend about $60,000 for improving its system.

Ore., Bend—Pringle Falls Electric Co. plans power plant.

Ont., Sudbury—British Canadian Nickel Co. plans power plant.

B. C., Vancouver—Hotel Vancouver plans power plant.

Bids In and Contracts Awarded

Mass., Watertown—Hood Rubber Co. let contract addition to boiler house to C. A. DODGE CO., Erie and Albany St., Cambridge. About $15,000.

N. Y., Syracuse—Hotaling Warne Co. let contract 1-story, 40x40-ft. power plant to DAWSON BROS., Union Bldg. About $15 000.

Penn., Philadelphia—S. B. and B. W. Fleisher let contract power plant to W. STEEL & SONS CO., Philadelphia, about $70,000.

Va., Richmond—Richmond Lumber Co. let contract power plant to H. L. BARKER, Richmond.

Ohio, Bucyrus—Bucyrus Light and Power Co. let contract power station to G. HICKS, South Charleston. About $15,000. Noted Sept. 7.

Ohio, Lowellville—Mahoning & Shenango Railway and Light Co. let contract high tension transmission line from Lowellville to Sharon, Penn., about 14 mi., to STONE & WEBSTER ENGINEERING CORPORATION, Boston.

Ind., Bloomfield—Indiana Power and Water Co. let contract power station and about 100 mi. transmission line to UTILITIES DEVELOPMENT CORPORATION, 327 South La Salle St., Chicago.

Ind., Gary—Calumet Electrical Co. let contract transmission line between Gary and Crown Point, about 17 mi., to T. G. HAMILTON CO., Gary, about $65,000. Noted Aug. 10.

Iowa, Des Moines—Des Moines City Railway Co. let contract 83x112-ft. power plant to A. H. NEWMANN & CO., $55,850. Noted Sept. 14.

Minn., Alexandria—City let contract power plant to UNION MACHINE CO., 183 University Ave., St. Paul. Noted June 15.

Minn., Erskine—City let contract electric-light plant to NORTHWESTERN ELECTRIC CO., Grand Forks, N. D. About $5,000. Noted Sept. 7.

Minn., Gilbert—Independent School Dist. No. 18 let contract 1-story boiler room to CAHAN & SON, Gilbert.

BRIDGES

Proposed Work

R. I., Providence—State Bd. Pub. Wks., Room 12, State House, receiving bids Oct. 4 for replacing 2 state bridges, No. 18, Narragansett River Bridge, and No. 138, Apponaug Mill Bridge.

Conn., Norwich—City soon to let contract for rein.-con. bridge on Sherman St.

N. Y., Buffalo—Comr. Pub. Wks. received no bids Sept. 12 for bascule bridge over Buffalo River on Abbott Rd. New bids. G. H. Norton, City Engr. Noted Aug. 24.

N. Y., Chittenango—State Highway Comn. plans bridge over Chittenango Creek, about $10,000. G. S. Tibbetts, Sullivan, Supt. Highways.

N. Y., North Tonawanda—State Highway Comn. made plans for bridge over Tonawanda Creek to be built jointly by state and New York Central R.R. D. B. La Du, State Engr. Noted May 11.

N. J., Elizabeth—Union County election Oct. 5 to vote on $54,000 bridge bonds. J. E. Roe, Elizabeth, County Clk.

N. J., Trenton—Bd. Freeholders Mercer County approved plans for bridge over Honey Brook, Hopewell Township. T. Tobias, Trenton, County Engr.

N. J., Westville—West Jersey & Seashore Railroad plans bridge across Big Timber Creek. J. Buckelew, Camden, Supt.

Penn., Erie—Erie County plans bridge across Rudd Run northwest of West Springfield. Address County Clk., Erie.

Del., Milford—Sussex County plans to rebuild bridge over Mispillion River. Address County Clk., Georgetown.

Penn., Harrisburg—Dauphin County recommended to build 2 bridges over Conwanesque

Bridges (Continued)

River. About $21,000 and $14,000 respectively. Address County Clk., Harrisburg.

Penn., Johnstown—Council authorized $100,000 bond issue for Luten concrete bridge between 8th and 17th wards. J. R. Crissey, City Engr. Noted Aug. 24.

Penn., Parnassus—Westmoreland County plans bridge across Little Puckety Creek. Address County Clk., Parnassus.

Penn., Philadelphia—City made plans for rein.-con. bridge on Marcie St. C. Albright, City Engr. Noted Sept. 21.

Penn., Phoenixville—Comrs. Chester County, Norristown, and Montgomery County, West Chester, plans concrete bridge over canal between Phoenixville and Mont Clare. Address County Clk., West Chester.

Va., Big Island—Bedford Pulp and Paper Co. plans bridge over Hunting Creek.

Va., Christiansburg—(Official)—Montgomery County, Christiansburg, receiving bids Oct. 7 for rein.-con. bridge over Little River between Montgomery and Pulaski Counties. Address County Clk., Christiansburg.

Va. Floyd—(Official)—Floyd County receiving bids Sept. 30 for rein.-con. bridge, 178-ft. long over Little River. Address County Clk., Floyd.

Va., Louisa—City plans bridge across North Ana River. John M. Holladay, Holladay, Va., interested.

Va., Richmond—City making plans for water mains in portion Beverly St.

W. Va., New Martinsville—Wetzel County receiving bids Oct. 12 for 12 bridges. Address County Clk., New Martinsville.

N. C., Gastonia—Gaston County receiving bids Oct. 5 for 2 steel bridges over South Fork River. O. B. Carpenter, Gastonia, County Clk.

Ga., Hinesville—Flemington, Hinesville & Western R.R. plans bridge. J. B. Way, Pres.

Fla., Bradentown—See item under "Streets and Roads."

Fla., Clearwater Key—(Official)—City plans election in about 30 days to vote on bonds for bridge over Clearwater Key. W. S. Gregory, City Clk. Noted Sept. 7.

La., Crowley—City making plans for steel bridge over Bayou Mallet. About $5,000.

Tenn., Jamestown—Fentress County receiving bids Oct. 7 for steel bridge across East Fork of Obeds River at Boatland River. Address County Clk., Jamestown. Noted Apr. 27.

Ky., Covington—City election Nov. 7 to vote on proposition to build traffic bridge over Licking River, about $40,000. H. G. Meiners, City Engr.

Ky., Covington—See item under "Streets and Roads."

Ky., La Grange—Olham County plans 2 concrete bridges on La Grange-Shelbyville Rd. W. D. Pinkston, La Grange, Clk.

Ohio, Canton—Stark County receiving bids Oct. 9 for bridge on Brewster-Justus Rd., Sugar Creek Township. W. C. Schick, Canton, County Clk.

Ohio, Cincinnati—Hamilton County plans bridge Mill Creek at North Bend Rd. About $46,000. William Boeh, Cincinnati, County Surv.

Ohio, Circleville—Pickaway County receiving bids Oct. 10 for rein.-con. bridge over Salt Creek. F. O. Nicholas, Circleville, County Audr.

Ind., Ft. Wayne—Council appropriated $65,000 for State St. Bridge. F. M. Randall, City Engr.

Ind., Ft. Wayne—(Official)—Allen County made no appropriation for bridge over Spy Run on 4th St. as stated in issue of Sept. 14.

Ind., Washington—Daviess County sold $30,000 bridge bonds. J. G. Clark, Washington, Audr.

Mich., Benton—City receiving bids Oct. 2 for 180-ft. steel viaduct on Britain Ave. M. L. Jones, City Engr.

Mich., Detroit—State and Michigan Central R.R. plan viaduct and bridge on Whitemore Lake Rd., Washington County, about $45,000. J. J. Cox, University of Michigan, Ann Arbor, Engr.

Wis., La Crosse—City made plans for bridge over Black River, about $50,000.

Iowa, Clinton—Clinton County plans 2 bridges in Spring Rock Township. F. Lohberg, Clinton, Audr.

Iowa, Council Bluffs—Chicago, Milwaukee & St. Paul Ry. and Chicago, Rock Island and Pacific Ry. plan viaduct on McPherson Ave., about $50,000. C. F. Loweth, Chicago, Ch. Engr. of former and C. A. Morse, Chicago, of latter.

Iowa, Independence—(Official)—Buchanan County receives bids about Nov. 10 for 3-span rein.-con. bridge over Wapsinicon River, about $42,000. R. W. Gearhart, Independence, County Engr. Noted Sept. 14.

Minn., Adrian—City plans concrete bridge on 4th Ave. M. E. Carrigan, City Clk.

Minn., Princeton—Town receiving bids Oct. 7 for truss bridge. Albert H. Kuhfield, Town Clk.

Minn., St. Paul—City plans water mains in various streets.

Kan., Junction City—Government appropriated $30,000 for bridge over Republican River between Junction City and Ft. Riley.

Kan., Olathe—Johnson County receiving bids Oct 7 for 5 rein.-con. bridges. W. J. Moore, Olathe, Clk. Noted Apr. 27.

Neb., Fairbury—Jefferson County plans to spend about $38,000 for bridge work. Address County Clk., Fairbury.

Neb., Gering—Scotts Bluff County election Oct. 10 to vote on $65,000 bridge bonds. Address County Clk., Gering.

Neb., Scotts Bluff—County to vote Oct. 10 on $65,000 bridge repair bonds. Address County Clk., Scotts Bluff.

Mo., Kansas City—Bd. Park Comrs. soon receives bids for 5-span rein.-con. bridge, 700-ft. long over Blue River and tracks of Frisco & Missouri R.R. About $178,000, $53,300 of which will be paid by railroad companies. Waddel & Son, 800 Graphic Arts Bldg., Engr. Noted July 20.

Ark., Clarendon—Monroe County plans bridge over Cypress Slough. Address County Clk., Clarendon.

Tex., Corpus Christi—Nueces County plans to rebuild causeway. About $30,000. Bartlett & Ranny, San Antonio, Engr.

Tex., Franklin—Robertson County Comrs., Franklin, and Milan County Comrs., Cameron, plan bridge across Brazos River between 2 counties.

Okla., Altus—(Official)—Jackson County does not plan 20 concrete and steel bridges as stated in issue of Aug. 31.

Okla., Buffalo—Harper County election Oct. 14 to vote on $15,500 bonds for bridges in Adams Township; $17,200 for Doby Township and $12,300 for Garfield Township. Address County Clk., Buffalo.

Okla., El Reno—Canadian County receiving bids Oct. 5 for rein.-con. bridges, Nos. 32 to 42 inclusive, also repairing Bridge 0142.

Okla., Oklahoma—Oklahoma County plans 2 bridges over North Canadian River on Reno Ave. E. K. Sheldon, Oklahoma, Chn. Bd.

Okla., Sallisaw—State Highway Dept., Oklahoma, approved plans for 3 steel bridges in Sequoyah County, about $7,000.

Okla., Tahlequah—Cherokee County election Nov. 7 to vote on $100,000 bridge bonds. Address County Clk., Tahlequah.

Colo., Boulder—City soon receives bids for bridge across Farmers ditch on Mapleton Ave.

Utah-Ogden—City soon lets contract for concrete arch bridge at mouth of Ogden Canyon.

Wash., Vancouver—Clarke County made plans for bridge over north fork of Lewis River, about $14,000. W. R. Schwarz, Vancouver, County Engr.

Ore., Portland—City receiving bids Dec. 6 for rein.-con. viaduct over tracks of Oregon-Washington Railroad and Navigation Co. About $750,000.

Calif., Orville—Butte County receiving bids Oct. 3 for 2 rein-con. bridges over Merrill Slough. C. F. Belding, Oroville, County Clk.

Calif., Redwood City—City making plans for several culverts. E. G. Finlay, City Engr.

Calif., San Diego—City plans repairing 13th St. Bridge. About $12,000.

Calif., San Diego—San Diego County receiving bids Oct. 4 for 6 bridges, about $25,000. J. T. Butler, San Diego, Clk.

Calif., Willow—Glenn County receiving bids Oct. 3 for 6 bridges. B. Knock, Willow, Surv.

Ont., Tillsonburg—Grand Trunk Ry. plans steel bridge over Broadway. H. R. Hafford, Montreal, Que., Ch. Engr.

Alta., Red Deer—Canadian Northern Ry. plans temporary bridge over Red River. A. T. Fraser, Edmonton, Div. Engr.

Bids In and Contracts Awarded

Maine, Lewiston—City let contract bridge over canal on Main St. to J. M. SWAN, Lewiston, about $22,000.

Vt., Barre—(Official)—City rejected bids for arch bridge in South Main St. Noted Sept. 7.

Mass., Williamstown—City let contract bridge over Doctor Brook on Bulkley St. to W. M. TULLER, North Adams.

Penn., Ebensburg—Cambria County let contract bridge over Little Conemaugh River to PORTAGE CONCRETE AND CONSTRUCTION CO., Portage. About $5,140.

Penn., Media—Delaware County Comrs. let contract rein.-con. arch bridge on Chichester Ave. over branch of Naamans Creek, Upper Chichester Township, to WHITTAKER & DIEL, Harrisburg. About $8,300. Noted Aug. 17.

Md., Baltimore—State Rd. Comn. let contract bridge over Western Run on York Rd. to LUTEN BRIDGE CO., York, Penn. Noted Sept. 14.

W. Va., Fairmont—County let contract bridge over West Fork River near Everson to MERYDITH CONSTRUCTION CO., Lowell, about $17,988. Noted Aug. 31.

N. C., Ashville—Buncomb County Comrs. let contract bridge near Craggy to C. W. REQUARTH & CO., Charlotte. About $45,000. Noted Aug. 24.

N. S., Belmont—Southern Ry. let contract bridge across Catawba River to AMERICAN BRIDGE CO., 30 Church St., New York.

Ky., Louisville—Louisville & Nashville R.R. let contract rein.-con. bridge over North Fork of Kentucky River to GEORGE M. EADY CO., Louisville.

Ohio, Dayton—Montgomery County let contract steel superstructure for bridge over Stillwater River, Harrison Township, to CENTRAL STATES BRIDGE CO., Indianapolis, about $18,650. Noted Sept. 7.

Ohio, Elyria—City let contract substructure for Beaver Creek Bridge to F. E. HEISLER, Massilion, $4,139; superstructure, WYNKOOP-McGORMLEY CO., Toledo, $4,619.

Ohio, Marietta—City let contract viaduct over run between Marietta and Parkersburg to MERYDITH CONSTRUCTION CO., Lowell, about $60,000.

Ind., Bloomfield—County let contract 4 bridges to VINCENNES BRIDGE CO., Vincennes, $4,797. Noted Aug. 31.

Ind., Bloomington—Monroe County Comrs. let contract bridges on Dixie Highway to VINCENNES BRIDGE CO. Noted May 25.

Mich., Ann Arbor—City rejected bids for bridge over Huron River on Broadway. Noted Aug. 17.

Mich., Lansing—State Highway Comn. let contract trunk line bridge No. 66 over Huron River at French Landing Sta., substructure, MEREDITH CONSTRUCTION CO., Detroit, superstructure, ELKHART BRIDGE AND IRON CO., Elkhart, Ind. Noted Aug. 31.

Ill., Antioch—Lake County let contract Miller Bridge to BURLINGTON BRIDGE CO., Burlington, Wis.

Wis., Madison—Wisconsin Highway Comn. let contract Dells Dam Bridge, about 10 mi. southeast of Neillsville, to ELKHART BRIDGE AND IRON CO., Elkhart, Ind.

Wis., Viroqua—Wisconsin Highway Comn. let contract 2 steel bridges to W. E. GIFFORD, Madison, $10,200.

Iowa, Boone—County let contract bridge over Fraser River to DES MOINES BRIDGE AND IRON WORKS, Des Moines, $10,555.

Iowa, Council Bluffs—Pottawatamie County rejected bids for 130-ft. high truss bridge. M. H. Howard, Council Bluffs, County Engr. Noted Sept. 7.

Iowa, Denison—Crawford County let contract 34 rein.-con. culverts to LANA CONSTRUCTION CO., Council Bluffs. About $21,112.

Minn., Duluth—St. Louis County let contract bridge across Big Fork River on Northern Deer River Rd. to IOWA BRIDGE CO., Des Moines, about $11,849.

Minn., Grand Rapids—Itasca County let contract Bridge No. 1643 over Big Fork River to IOWA BRIDGE CO., 716 McKnight Bldg., Minneapolis.

Kan., Ellinwood—Barton County let contract 3 bridges to R. G. CAMPBELL, Lyons, about $4,750.

Kan., Leavenworth—Leavenworth County let contracts for 16 bridges to JOHN COLDREN, Lansing, about $13,015; 5 bridges to J. F. WARD, Linwood, about $5,416. Noted Aug. 3.

Kan., Manhattan—County let contract 2 bridges over Blue River to CANTON BRIDGE CO., New York Life Bldg., Kansas City, Mo. About $37,375. Noted Aug. 24.

Kan., Topeka—Shawnee County let contract Waveland Bridge to ALLEN & FULTON, Topeka, $10,141; Hayes Bridge, MIDLAND BRIDGE CO., Kansas City.

N. D., Bottineau—(Official)—Bottineau County let contract rein.-con. bridge over House River to HENNEPIN BRIDGE CO., Minneapolis, Minn. About $19,350. Noted Sept. 7.

N. D., Manning—Dunn County let contract 9 bridges to MINNEAPOLIS BRIDGE CO., 1129 Metropolitan Life Bldg., Minneapolis, about $18,000.

Mont., Hamilton—Ravalli County let contract bridge to J. ITEN, Hamilton.

Mo., Louisiana—Council rejected bids for bridge over Noix Creek.

Mo., Poplar Bluff—Butler County let contract 7 bridges to MILLER-BORCHERDING CO., about $14,815. Noted Apr. 27.

Tex., Austin—City let contract additional arches at bridges on 15th and 16th St. and Waller Creek to B. J. KNAPE, Austin, about $10,000. Noted Sept. 21.

Okla., Pawhuska—City let contract bridges to MISSOURI VALLEY BRIDGE AND IRON CO., Leavenworth, Kan., about $6,640; and OKLAHOMA IRON WORKS., Oklahoma, about $4,675. Noted May 25.

Okla., Sapulpa—Creek County let contract 2 bridges to O. SAUNDERS. Noted June 22.

Okla., Shawnee—Missouri, Kansas & Texas R.R. let contract 2 bridges near Shawnee and Oklahoma City to J. W. McMURRAY CONTRACTING CO., Kansas City, Mo.

Colo., Sapinero—County let contract bridge over Gunnison River at Sapinero to OMAHA CONSTRUCTION CO., Omaha. Noted June 22.

Wash., Colville—Stevens County let contract bridge near Arden to ACORN & SON, Colville, about $4,435.

Calif., Petrolia—County let contract bridge over north fork of Mattole River to POLAND & ROBINSON. About $4,385.

Bridges (Continued)

Calif., Quincy—County let contract Wolf Creek Bridge to GILDERSLEEVE CONTRACTING CO. About $6,000.

Calif., Redwood City—County let contract concrete bridge over San Gregorio Creek to A. MATTSON, San Bruno. About $4,418.

Calif., Sacramento—State Highway Comn. let contract bridge in De La Cuesta Canyon across Santa Ynez River to MERCER-FRASER CO., Eureka, about $124,650. Noted Aug. 3.

Calif., Santa Barbara—Santa Barbara County let contract bridge over Arroyo Quemado to W. M. KEADBETTER, Los Angeles, $40,150.

Calif., Spenceville—County Supvrs., Marysville, let contract for concrete bridge over Dry Creek to A. H. BURTON. About $4,199.

Calif., Springville—Tulare County let contract concrete bridge over Tule River to PARLIER & GREEN, Tulare. About $5,986. Noted Sept. 14.

Que., St. Martine—Low bidder bridge over Chateguay River near Church, U. Ouellette, Lachine, $33,950.

WATER-WORKS

Proposed Work

Mass., Fall River—(Official)—Reservoir Comn. receiving bids Oct. 3 for wash drill and core drill test borings in vicinity of Mill Brook at possible dam and pipe line sites in city of Fall River and town of Freetown. H. K. Barrows, 6 Beacon St., Boston, Consult. Engr.

N. Y., Canton—City plans election to vote on project to install water system, about $157,000. L. R. Smith, Supt. C. E. Perry, Albany, Engr.

N. Y., Cohoes—(Official)—Bd. Contract and Supply receiving bids Oct. 2 for water meters of disk type from ⅝-in. to 2-in. size together with 3-in. water meters of current type. E. N. Amyot, Secy. F. R. Dawson, Supt. Water Dept. (See adv.)

N. Y., Elmira—(Official)—City rejected bids for 7,500,000 gal. electrically driven pump to be installed in pumping station. New bids. H. M. Beardsley, Gen. Mgr. Water Bd. Noted June 15.

N. J., Ogdensburg—City plans water system and pumping station. About $30,000.

N. J., Asbury—City plans extending water mains.

N. J., Newark—Bd. St. and Water Comrs. soon let contract for water pipes and special castings for high and low pressure systems. G. Sansenbacher, Supt.

N. J., Sistersville—City made plans for 2,000,000 gal. filter plant, about $30,000. Douglass & McKnight, Union Bank Bldg., Pittsburgh, Engr.

Penn., Enola—Pennsylvania R.R. plans new reservoir near Enola. A. C. Shand, Philadelphia, Ch. Engr.

Penn., Johnsonburg—State Dept. of Health approved plans for filter plant for Johnsonburg Water Co. Noted June 22.

Penn., Molinton—City making plans for filter plant.

Penn., Nescopeck—City made plans for water-works, about $28,000. Noted July 20.

Penn., New Oxford—Borough plans to improve and extend water system.

Penn., Philadelphia—Dept. Pub. Wks. receiving bids Oct. 3 for 2 pumps, 1 with daily capacity of 25,000,000 gal. at Queens Lane Sta. on Schuylkill River and 1 of 35,000,000 gal. at Lardner's Point on Delaware River. G. T. Danteman, Dir.

Penn., South Bethlehem—Bethlehem City Water Co. plans additional filters. H. M. Uberroth, Supt.

Va., Richmond—(Official)—Administrative Bd. receiving bids Oct. 11 for 1 electrically operated centrifugal pump of 5,000,000 gal. capacity for water boosting service and one 150-hp. alternating current induction type 3-phase motor. (See adv.)

S. C., Johnston—See item under "Sewers".

Ga., Damascus—See item under "Light, Heat and Power."

Ala., Tuscaloosa—City plans 1½ mi. of 14-in. pipe and extensions to 6-in., also new pumping station. W. Finnell, Supt.

Ga., Manchester—City voted $36,000 water-works bonds. W. M. Moore, Mayor. Noted Sept. 14.

Fla., St. Cloud—City sold $72,000 water bonds. Noted Sept. 21.

Tenn., Benton—City plans election to vote on $10,000 bonds for water and sewer systems.

Tenn., Knoxville—City retained C. H. Anderson, Supt. Cincinnati Water Dept., Cincinnati, Ohio, to make plans to improve and extend water system. Election will be held Oct. 24 to vote on $225,000 bonds for same. Noted Sept. 14.

Ky., Louisville—(Official)—Water Bd., care of Louisville Water Co., 435 3d St., receiving bids Oct. 16 for pumping station on Ohio River. W. O. Head, Pres. Noted Aug. 3.

Ohio, Bradford—Miami and Darke Counties plan to install water system. A. E. Kimberly, 1631 Columbus Savings and Trust Bldg., Columbus, Engr. O. H. Preston, Supt. Water Dept.

Ohio, Cleveland—City retained F. C. Noble, Engr., 50 Church St., New York, to make investigations and submit report on proposed East Side filtration plant. Noted Aug. 24.

Ohio, McArthur—McArthur Water Co. plans water-works, about $25,000. Burgess & Long, 827 Columbus Savings and Trust Bldg., Columbus, Engr.

Ohio, Newark—Council passed ordinance to issue $15,000 bonds for water system. G. Buchanan, Supt.

Ohio, Newburg Heights—(Cleveland post office)—City receiving bids Oct. o for water mains in East 52d St. Noted Sept. 14.

Ohio, New London—City election Oct. 17 to vote on $56,000 water-works bonds.

Ohio, Celina—City retained E. B. Kay, Consult. Engr. 395 Colonial Bldg., Winchester, Ky., to make investigation and recommendation for improving water system. Noted July 13.

Ohio, Springfield—City plans extending water system.

Ohio, Zanesville—City receiving bids Oct. 2 for twenty 10-in. wells. W. R. Roach, Dir. Pub. Ser. J. R. Kommer, 1116 House Bldg., Pittsburgh, Engr.

Ill., Rock Island—City plans water main in 17th St., about $5,012. R. Beckstrom, Supt.

Ill., Waukegan—(Official)—City receiving bids Oct. 2 for water main in Madison St. M. J. Douthitt, City Engr. Noted Apr. 27.

Wis., Milwaukee—Bd. Pub. Wks. receiving bids Oct. 2 for improving water mains Milwaukee Rd. Fred G. Simmons, Comr.

Iowa, Corning—City making plans for water system. About $30,000. J. E. Roberts, Supt. Noted Sept. 21.

Iowa, Havelock—Town plans water-works, about $8,000. G. Mick, Clk.

Iowa, Iowa Falls—City plans improving water system. Homer Hughes, City Engr.

Minn., Gaylord—Village voted $15,000 water-works bonds. Noted Aug. 24.

Kan., Argonia—City election Oct. 2 to vote on $20,000 water-works bonds. W. B. Rollins & Co., 439 Railway Exchange Bldg., Kansas City, Mo., Engr.

Kan., Augusta—City sold $10,000 water-works bonds. W. B. Jones, Supt. Noted Sept. 14.

Kan., Ellis—(Official)—City receiving bids Oct. 2 for improving water system, about $16,000. R. C. Gall, Supt. Black & Veatch, Kansas City, Mo., Engr. Noted Sept. 14.

Kan., Jetmore—See item under "Light, Heat and Power."

Kan., McPherson—See item under "Light, Heat and Power."

Kan., Moran—City voted $30,000 water bonds. Noted Sept. 7.

Kan., Robinson—(Official)—City does not plan bond issue for water system as stated in our issue of Sept. 14.

S. D., Castlewood—City soon lets contract for water system, about $20,000. W. W. Sour, City Clk

N. D., Fessenden—City plans water and sewer systems.

N. D., Mohall—Village voted bonds for water system. Noted Aug. 31.

Mo., Sedalia—City plans voting on bonds for water system. Noted Aug. 31.

Mo., Stanberry—City lets contracts for water mains and hydrants next spring, about $15,000. C. A. Greenlee, City Clk.

Mo., Trenton—City receiving bids Oct. 11 for filter plant. About $30,000 available. E. E. Harper, 2404 East 30th St., Kansas City, Engr. Noted Sept. 14.

Ark., Beebe—City does not plan water-works as stated in issue of Sept. 21.

Ark., Harfield—City plans water system.

Ark., Morrillton—City plans water system. James Scanlon, Supt.

Ark., Pocahontas — Pocahontas Water-Works Dist. Comnrs., receiving bids Oct. 4 for water system.

Tex., Eagle Pass—Eagle Pass Water Co. increased capital stock from $60,000 to $80,000, and will enlarge water system.

Tex., Maypearl—City voted $7,000 water bonds. Noted Aug. 24.

Okla., Blackwell—Citizens defeated $35 000 bonds for water system and electric-light plant. W. D. McIntire, Supt. Noted Aug. 31.

Okla., Granite—City retained Benham Engineering Co., Oklahoma, to make investigations and prepare plans for water system. Noted Aug. 31.

Okla., Nash—City plans voting on $25,000 water bonds. Noted Sept. 21.

Okla., Okmulgee—City soon votes on $25,000 bonds for water-works. Address City Clk.

Okla., Skiatook—City plans water system and electric-light plant.

Okla., Waynoka—City voted $50,000 bonds for water-works. Noted Aug. 10.

Idaho, Potatello—(Official)—City voted $300,000 bonds for improving water-works. E. C. Smith, Supt. Water Dept. Noted Sept. 7.

Utah, Garland—City plans water system, about $30,000. T. H. Edwards, Supt.

Wash., Oroville—City Council plans to extend water mains. E. R. Hoose, City Clk.

Wash., Seattle—Engineering Dept. estimates cost of water mains in 10th Ave. at $44,084. L. B. Young, Supt. Water Wks.

Ore., Joseph—City plans to extend water system about 2 mi., $5,000. W. S. Harrell, Supt.

Calif., Los Angeles—City rejected bids for riveted sheet-steel pipe in Dist. No. 2. New bids. J. P. Vroman, Secy. Dept. Pub. Ser. Noted Aug. 31.

Calif., San Pablo—People's Water Co. plans earth dam on Lane Ranch. About $75,000.

Calif., Santa Paula—Santa Paula Water-Works Co. plans to improve system. About $10,000.

Que., Sherbrooke—City plans $5,000,000 gal. reservoir, about $50,000. E. McKeon, Supt. Water Dept. T. Tremblay, Engr.

N. S., New Glasgow—City soon receives bids for extending water system. About $100,000. J. Roy, Clk. Noted Aug. 31.

Ont., Lindsay—See item under "Sewers."

Bids In and Contracts Awarded

Mass., Boston—City let contract water mains in Broadway, Harrison Ave., Curve, Hudson and Kneeland St. to J. T. SHEA, Jr., 696 East 6th St., South Boston, about $14,605.

N. Y., Mt. Morris—City let contract portion conduit of water system between Twin Bridges and Mt. Morris to DESSIDERIO & SATTLER, Rochester, $9,615.

N. Y., New York—(Official)—C. MEADS & CO., 38 Park Row, at $46,140, awarded contract for controlling mechanisms for riser valves in shafts of city tunnel of Catskill Acqueduct, Contract No. 174. Noted Sept. 14.

N. Y., New York—(Official)—W. Heyman, 383 East 157th St., Bronx, at $38,320, low bidder grouting rock above Eastview Tunnel of Catskill Acqueduct, Contract No. 178. Noted Aug. 31.

N. Y., North Tonawanda—Bd. Pub. Wks. let contract pumping station to DUROLITHIC CO., Ellicott Sq. Bldg., Buffalo. About $15,592. Noted Mar. 30.

N. J., Lodi—(Official)—Borough let contract wells to DUTCHER ARTESIAN WELL DRILLING CO., Paterson. Noted Mar. 2.

Va., Chilhowie—City let contract water and sewer systems to R. L. BLEVINS, Bristol. Noted July 27.

S. C., Columbia—(Official)—City let contract about 6 mi. c.-i. water pipe to THORNWELL-McMASTER & CO., Columbia, $5,147. Noted Sept. 14.

Fla., Brooksville—City election Oct. 9 to vote on $20,000 water-works bonds. H. McElroy, Tampa, Engr. Noted Aug. 24.

Miss., Tchula—City let contract water system to J. L. V. GRENIER CO., Clinton, Ky. Noted May 14.

La., Shreveport—(Official)—City let contract pumping station and filter softening plant to McKENZIE CONSTRUCTION CO., $81,915; 2 sedimentation basins and clear water reservoir to SMITH BROS. & TURNER, $84,852; general pipe laying to MOORE, McCAIN & HEARNE, $11,317. Noted Aug. 24.

Ohio, Coshocton—City let contract crane for pumping station to BROWN HOISTING MACHINERY CO., Cleveland. Noted July 20.

Ohio, Rocky River—(Official)—City let contract water mains in North Ridge Rd. to C. H. BARTHOLOMEW, Kent, about $8,425. Noted Aug. 24.

Ohio, Sandusky—City let contract water mains in Pierce St. to H. W. HOMEBERGER.

Ill., Paxton—Village let contract water mains to W. F. DELAHANTY, Decatur, $17,455.

Ill., Riverdale—Village let contract water mains in West 138th St. to A. KRAAG, Harvey, $4,910. Noted Sept. 7.

Ill., Rock Island—City let contract water mains in 9th, 11th, 12th and 14th St. to P. F. TRENKENSCUH. About $11,356. Noted Sept. 14.

Wis., East Troy—Village Bd. let contract concrete reservoir to LEVI MOHR, Beloit, air compressor and 2 motors to FAIRBANKS-MORSE MANUFACTURING CO., Beloit.

Wis., Manitowoc—City received low bid c.-i. lake intake for water system from McMullen & Pitz, $8,530.

Minn., Spooner—(Official)—City let contract well to I. OLSON, Buhl, $7 per ft. Noted Aug. 10.

Minn., Thief River—City let contract water mains to ROBINSON & VANALSTINE CO., Grand Forks, N. D., $5,169. Noted Aug. 31.

Mo., St. Louis—City received bids to cover reservoirs in vicinity of Merchants' Bridge approach from Hogan Contracting Co., St. Louis, $232,172; Herman Contracting Co., St. Louis, $235,174; McCormack-Combs Construction Co., St. Louis, $235,542. Noted Sept. 21.

Okla., Drumright—City let contract water system to TOLBERT CONSTRUCTION CO., Muskogee, about $25,000.

Wash., Tacoma—City let contract water mains on J St. to J. J. MONAHAN, Tacoma, $5,113. Noted Aug. 17.

Water-Works (Continued)

Que., Aylmer—Water Comn. let contract filter plant to R. P. SMITH & CO., Montreal. Noted Aug. 17.

Que., Hull—Council let contract mains to WILFRED HERBERT, Wall St., Hull. About $35,000. Noted July 20.

Ont., Ottawa—Contract for water mains awarded to NATIONAL IRON WORKS, Cherry St., Toronto.

Ont., Palmerston—City let contract centrifugal pump to CANADIAN FAIRBANKS-MORSE CO., LTD., Toronto.

SEWERS

Proposed Work

Mass., Fall River—City plans sewers and disposal plant. H. K. Barrows, 6 Beacon St., Boston, Consult. Engr.

Mass., Fitchburg—City plans sewer system. About $267,312. W. A. Davis, City Clk.

Conn., Bridgeport—See item under "Streets and Roads."

Conn., Bridgeport—City plans sewers in Dover and Pequonnock St. and Park Ave. A. H. Terry, City Engr.

Conn., Shelton—City plans to complete sewer system, about $30,000.

Conn., Thomaston—City soon receives bids for sewer system. About $10,000. C. H. Preston, Jr., 136 Grand St., Waterbury, Engr. Noted Sept. 7.

N. Y., Albany—City plans sewers in Lark St. and Grant Ave. and improving sewer in 3rd St. I. Wachsman, Secy. Bd. Contract and Supply.

N. Y., Albany—City plans sewers in Schuyler St. and Delaware Ave. F. R. Lanagan, City Engr.

N. Y., Kenmore—City making plans for sewers in East Hazeltine Ave. About $5,000. White & Getman, Mutual Life Bldg., Buffalo, Engr. E. W. Johnson, 2852 Delaware Ave., Clk.

N. Y., Seneca Falls—Comn. soon receives bids for sewer in Mynderse St.

N. J., Cranford—C. Potts, Engr., 30 Church St., New York, making plans for joint sewer and disposal plant for boroughs of Cranford, Rahway, Union, Springfield, Garwood and Hillside. Noted July 6.

N. J., East Orange—(Official)—City receiving bids Oct. 9 for storm water drain in Halsted Valley of 3d ward. W. D. Willigerod, City Engr. (See adv. Sept. 21 issue.)

N. J., Haskell—City plans sewage-disposal plant.

N. J., Newark—See item under "Streets and Roads."

N. J., Pitman—Borough Council soon lets contract for sewer system and disposal works. About $110,000. J. E. Peterson, Borough Clk. Noted Sept. 14.

N. J., Plainfield—(Official)—Common Council receiving bids Oct. 9 for storm sewers and appurtenances. J. J. Carroll, City Clk. (See adv.)

N. J., Trenton—City plans to extend sewer in Trenton St.

N. J., West Hoboken—Joint Sewer Com. of West Hoboken and Weehawken, Town Hall, West Hoboken, receiving bids Oct. 3 for joint sewer. A. L. Wachlen, City Engr.

Penn., Bellwood—(Official)—City receiving bids Oct. 11 for sewer system and disposal plant. H. Linton, 1717 13th St., Altoona, Engr. Noted Sept. 7. (See adv.)

Penn., Catawissa—Borough plans disposal plant.

Penn., Clinton—State Dept. of Health approved plans for sanitary sewers and treatment plant for State Industrial Home for Women. J. G. Thorne, City Engr.

Penn., Clifton Heights—City plans sewers. A. F. Damon, Jr., Darby, Engr.

Va., Chilhowie—See item under Water-Works. Noted July 27.

Va., Galax—City plans sewer system. B. D. Beamer, City Clk.,

S. C., Johnston—City soon votes on $50,000 bonds for sewer and water systems.

Ga., Manchaster—City voted $9,000 sewer bonds. W. M. Moore, Mayor. Noted Sept. 14.

Ala., Birmingham—L. H. Slater, County Sanitary Engr., making plans for lowering East Lake Sewer. About $22,000.

Tenn., Benton—See item under "Water-Works."

Ohio, Cleveland Heights—(Warrensville post office)—City receiving bids Oct. 16 for sewers in Cedar and Lancaster Rd. F. A. Pease Engineering Co., 806 Marshall Bldg., Cleveland, Engr.

Ohio, Columbus—City receiving bids Oct. 1 for manholes and catch basin fittings. G. A. Borden, Dir. Pub. Ser. P. B. Kemper, Clk.

Ohio, Elyria—City plans sewers in Dist. No. 2. C. M. Braman, Clk.

Ohio, Lebanon—City soon receives bids for sewage disposal plant. About $25,000. W. S. Sherman, 615 Nasby Bldg., Toledo, Engr.

Ohio, Logan—City plans to extend Oberlin Ave. Main Sewer Dist. No. 2.

Ohio, Newark—City to sell $76,500 sewer bonds Oct. 16. A. N. Dodd, Audr. C. H. Weils, City Engr.

Ohio, Newburg Heights—(Cleveland post office)—City receiving bids Oct. 17 for purchase of $6,174 bonds for sewers in East 49th St. J. A. Fitzgerald, Clk. Noted Sept. 14.

Ohio, Rittman—City plans bond issue for extending sewer system and disposal works. V. Hickin, Clk.

Ohio, Sandusky—City plans sewers in Homestead St. and Columbus Ave. A. F. Johnston, City Engr.

Ohio, Tiffin—(Official)—City receiving bids Oct. 3 for sewers in Ohio, Clinton and Industrial Ave. W. Heller, Dir. Pub. Ser. Noted Aug. 31. (See adv.)

Ohio, Toledo—County Comrs. plans Norwood sewer about $200,000. and Point Plate Dist. sewer about $100,000.

Ohio, Warren—City plans sanitary sewer in Highland Blvd. G. T. Hecklinger, Clk.

Ind., Evansville—City plans 12-in. sewer in High St. J. D. Saunders, City Engr.

Ind., Shelbyville—City making plans for sanitary sewer in Tompkins St. About $10,000. G. McBride, City Hall, Engr. Noted Aug. 10.

Mich., Hancock—City soon votes on bonds for sewers. C. T. Mason, City Engr.

Mich., Plymouth—City making plans for sanitary sewer system, 6 mi. and disposal plant. About $60,000. Head & Decker, U. of M., Ann Arbor, Engr.

Ill., Waukegan—(Official)—City receiving bids Oct. 2 for 2,450 ft. of 8-in. sewer and 2,140 ft. of 10-in. sewer, about $5,110. M. J. Douthitt, City Engr. Noted May 18.

Wis., Neenah—City receiving bids Oct. 12 for sewers in Ock, Pine, Main and Lake St. A. E. McMahon, Engr. Noted Aug. 24.

Iowa, Clarinda—City Council established sewer district in northeast section of city.

Iowa, Davenport—City plans to extend sewers on Marquette and Warren St. and storm drain on Cedar St. About $50,000. J. W. Crowley, Comr. Pub. Wks.

Iowa, Dubuque—Council plans sewer at municipal bathing beach. E. C. Blake, City Engr.

Minn., Dawson—City receives bids Oct. 1 for purchase of $25,000 sewer bonds. Noted Sept. 21.

Kan., Hanover—City plans sewer system.

Kan., Wichita—City plans Subdist. No. 3 of Lateral A of Sanitary Sewer No. 12. B. C. Wells, City Engr.

S. D., Clear Lake—City plans sewer system.

N. D., Fessenden—See item under "Water-Works."

Mo., Higginsville—City soon votes on $21,000 bonds for sewer system. Burns & McDonnell, 400 Interstate Bldg., Kansas City, Engr. Noted July 13.

Mo., Salisbury—City defeated $25,000 bond issue for sewer system. Noted July 6.

Tex., Cisco—City plans extending sewer system and building disposal plant. About $25,000.

Tex., Ennis—City plans sewer system and disposal plant. About $15,000. G. G. Edmond, City Engr.

Tex., Lockhart—City election Oct. 17 to vote on $35,000 sewer bonds. H. E. Elrod, Southwestern Life Bldg., Dallas, Engr. Noted June 29.

Tex., Mineral Wells—City Engineer submitted plans for disposal plant to State Sanitary Engineer, Austin, about $12,000. Noted June 8.

Okla., Kusa—City sold $25,000 sewer bonds. D. B. Anthony, Mayor. Noted Sept. 14.

Okla., Marlow—City soon votes on $25,000 bonds for sewer system.

Utah, Salt Lake City—City receiving bids Oct. 3 for sewers in Douglas St. G. Snow, City Recdr. S. G. Cannon, City Engr.

Wash., Toppenish—City Council plans sewers in Swasey and McQuestion Addition.

Ore., Eugene—City made plans for sewers in Cheshire Ave. and Jefferson St. A. Forneri, City Engr.

Calif., East San Diego—City soon lets contract for 40,000 ft. 6- to 16-in. main sewers and 60.000 ft. of lateral sewers. E. Paul Ford, City Engr.

Calif., Fresno—City making plans for storm sewers. B. E. Cronkite, City Engr.

Calif., Hermosa Beach—(Official)—City receiving bids Oct. 17 for sewage-disposal and treatment plant. C. R. Sumner, City Engr. Noted Aug. 17.

Calif., Los Angeles—City plans sewers in Woodlawn Ave. G. Cromwell, City Engr.

Calif., Modesto—City plans storm sewer in 11th St. About $30,000.

Calif., San Francisco—See item under "Streets and Roads."

Calif., Seal Beach—(Official)—City receiving bids in March for sewers and disposal plant. Olmstead & Gillelen, 1011 Hollingsworth Bldg., Los Angeles, Engr. Noted Sept. 14.

Que., Hull—City Council plans sewers and water mains in Scott St. About $8,000. J. P. A. Laforest, City Engr.

Ont., Lindsay—Town Council plans sewers and water mains. About $8,000. D. Ray, Town Clk.

B. C., Victoria—City plans sewers in Walk and John St. C. H. Rust, City Engr.

Bids In and Contracts Awarded

Conn., West Hartford—City let contract sew in Waldridge Rd. to N. C. CASCIANO & Co Hartford.

N. Y., New York—(Bronx)—(Official)—City l contracts sewers to GASPARINI & DEBLASIO in East 243rd St.; J. BUCKLEY, in West 238 St.; T. LAPADULA, in Byron and Matthews Av

N. Y., New York—(Manhattan)—Contract sewe in Dyckman St. let to HARBY, ABRONS & MELIUS.

N. Y., Salamanca—City let contract sanitary sewers to BUNCE & CARL, 125 Fulton St., Olean $30,733.

N. Y., Waterbury—Contract storm sewer in Union Ave. let to GREEN & MARSHALL Westbury.

N. J., Bogota—(Hackensack post office)—(Official)—City received low bids Sept. 15 for sewer system, Sect. No. 2 from R. F. Relly, Oswego, $20,916; Martin, Miller & Pizzimenti, Caldwell, $21,608; C. S. Edwards Co., 1 Montgomery St., Jersey City, N. J., $23,515. Clyde Potts, 30 Church St., New York, Engr. Noted Sept. 7.

N. J., Newark—Passaic Valley Sewerage Comn. let contract portion Sect. No. 23 Intercepting Sewer in Warren St., Paterson, to CENEDELLA & CO., Passaic, $11,740.

N. J., South Amboy—Contract sanitary sewer let to THOMAS DOWNS.

Penn., Scranton—City let contract lateral sewers in Kellerman's Court to C. L. CAMP, 836 North Irving Ave., $391,000.

S. C., Columbia—(Official)—City let contract sewers to DYSARD CONSTRUCTION CO., Atlanta, Ga., $33,165. Noted Sept. 7.

Ala., Tuscaloosa—(Official)—City let contract storm sewer to M. T. MAXWELL, Tuscaloosa, $10,531. Noted Sept. 7.

Ohio, Columbus—City let contract 3d Sect. of 3d Ave. storm and sanitary sewer to O'DONNELL & THORNBERRY, $54,790. Noted Sept. 7.

Ohio, Dayton—City let contract sewers to T. P. STRACK, Goodall Bldg., Cincinnati, Bolender Ave., $7,147; Eaker St., $39,363. Noted Sept. 7.

Ohio, Elyria—City rejected bids received Sept. 5 for sewers in Prospect St., Haye Ave. and East Broad St., outlet sewer in West River and Florence St. M. M. Wilcox, Dir. Pub. Ser. Noted Aug. 13.

Ohio, Lancaster—City let contract storm and sanitary sewers to CLOVER & STREETS, Lancaster.

Ind., Decatur—City let contract Lake sewer to STEVENS & STEVENS. H. M. De Voss, City Clk.

Mich., Ann Arbor—City let Sanitary Sewer Contract No. 72 to E. L. SCHNEIDER, Ann Arbor, about $21,210.

Ill., Bloomington—City let contract Colton Ave. sewer system to D. H. RIDER, $7,765.

Ill., Chicago—(Official)—City received low bids for Niles Center Sewer Outlet from T. P. Garland, 1453 Belle Plaine, Chicago, $24,551; Marquette Construction Co., Chicago, $31,343; W. F. Cummings, $33,458.

Wis., Mosinee—City will build sewer in Main St. by day labor. E. H. Viele, Clk.

Iowa, Des Moines—City let contract sanitary sewer in East 28th St. to C. A. CARPENTER & CO., 6th and New York St.

Iowa, Griswold—(Official)—City let contract sewers to J. L. HAUSMAN, Des Moines, $21,000. Noted Sept. 14

Iowa, Riceville—City let contract sewer system to DE LA HUNT, Cedar Rapids, $6,175. Noted Feb. 17.

Minn., Claremont—(Official)—City let contract sewers to W. C. FRASER, $13,379. Noted Aug. 24.

Minn., Winthrop—City let contract for sanitary sewers to GAYLORD HARDWARE CO., $6,766. Noted Sept. 7.

Kan., Chetopa—City let contract sewer system to H. KOST, Joplin, $17,000. Noted June 8.

Neb., Beatrice—City let contract sewer in Dist. No 22 to INTER-MOUNTAIN BRIDGE AND CONSTRUCTION CO., Tecumseh, $5,876. Noted Sept. 21.

N. D., Mandan—City let contract extending sanitary sewers to BADGER CONSTRUCTION CO., Fargo, $12,206. Noted Aug. 10.

Mont., Anaconda—City let contract storm sewer in 3rd St. to GLIFTON, APPLEGATE & TOOLE. $49,971. Noted May 4.

Mont., Hardin—City let contract sewer system and disposal plant to SECURITY BRIDGE CO., Billings, about $12,000. Noted Aug. 3.

Mo., Jefferson City—City let contract sanitary sewer and septic tank in Dist. No. 23 to L. BRUNER.

Mo., Trenton—City let contract sewers in Sewer Dist. No. 12 to HOOVE BROS. CONSTRUCTION CO. Noted Aug. 31.

Tex., Huntsville—City let contract sewer system to R. W. GRIFFIN, Ft. Worth, $21,129.

N. B., Moncton—City Council let contract sewer in Block 8 to D. T. LEBLANC and D. LEBLANC, $37,054. Noted Mar. 16.

Sewers (Continued)

Que., Chambly Basin—City let contract sewers to L. GIGUERE, Montreal, $15,400.

Ont., Ottawa—(Official)—City will build sewers on Booth St. by day labor. About $5,700. A. F. Macallum, Comr. Wks. Noted Sept. 14.

GARBAGE

Proposed Work

N. Y., New York—(Manhattan)—J. T. Fetherston, Comr. Street Cleaning, Municipal Bldg., receiving bids Oct. 5 for removal of snow and ice during winter season for 1916-1917; also for removal of snow and ice by districts. Noted Aug. 10.

N. J., Newark—Bd. Pub. Wks. making plans for incinerator plant and loading stations in various parts of city. M. R. Sherrerd, City Engr. Noted Sept. 14.

Mich., Flint—Michigan Fuel Co., Toledo, Ohio, submitted proposition to city for collecting and disposing of garbage. E. C. Shoecraft, City Engr. Noted Jan. 27.

Tex., Lockhart—City votes Oct. 17 on $35,000 bonds for garbage incinerator plant.

STREETS AND ROADS

Proposed Work

N. Y., Bath—Steuben County plans to build about 17.8 mi. macadam roads. About $252,120. Address County Clk., Bath.

N. Y., New York—(Manhattan)—(Official)—Marcus M. Marks, Borough Pres., Municipal Bldg., receiving bids Oct. 2 for repaving roadway Central Park Traverse Road No. 2, 5th Ave. and 79th St. to Central Park, W., and 81st St.

N. Y., New York—(Queens)—M. E. Connolly, Borough Pres., Borough Hall, Long Island City, receiving bids Oct. 5 for grading, curbing and laying sidewalks on portions Worthington Ave., Woodbine St., Custer St., Rockaway Blvd., Toledo St., Hunterpoint Ave., Cypress Ave., Fairview Ave., Madison St., Sedgwick St., Putnam Ave., 118th St. and Ditmars Ave.

N. J., Irvington—City plans to improve Roosevelt Terrace, bitulithic. I. J. Casey, City Engr.

N. J., Kearny—City plans to improve John St., macadam. H. P. Kreimer, City Engr.

N. J., Montclair—Town receiving bids Oct. 3 for paving and curbing South Fullerton Ave. H. Trippett, Clk.

N. J., Paterson—Bd. Freeholders Passaic County plans to spend about $1,000,000 for road work. Address County Clk., Paterson.

N. J., Newark—City sold $1,600,000 bonds for paving and sewers. M. R. Sherrard City Engr.

N. J., New Brunswick—Bd. Freeholders, Middlesex County, plans to pave portion Plainfield Ave., Piscataway Township. Address Clk., New Brunswick.

Penn., Beaver Falls—City soon receives bids for paving portions 11th St. and Atlantic Ave. C. S. Donaldson, City Engr.

Penn., Brownsville—Council receiving bids Sept. 29 for paving portion Prospect St. T. A. Waggoner, Secy.

Penn., Camp Hill—City plans to pave Market St., about $30,000.

Penn., Lebanon—Burks & Dauphin Turnpike Co. plans $75,000 bond issue for resurfacing turnpike roads. W. M. S. Moore, Pres.

Penn., Pittsburgh—City plans to repave Smithfield St., wood block, about $22,000. R. Swan, Dir. Pub. Ser.

Penn., Pittsburgh—Allegheny County plans to rebuild Browns Hill Rd., about $100,000. Address County Clk., Pittsburgh.

Penn., South Bethlehem—City plans election to vote on $10,000 paving bonds. R. M. Brady, City Engr.

Md., Baltimore—City plans to pave portion Wayard St., brick or asphalt. R. M. Cooksey, City Engr.

Va., Buckingham—Buckingham County plans election to vote on $50,000 road bonds. Address County Clk., Buckingham.

W. Va., Keyser—Mineral County receiving bids Oct. 7 for paving Keyser and Piedmont Rd., Keyser and Headsville Turnpike, Spring Rd., New Creek and Hardy Turnpike, Cut Off and Elk Garden Rds., New Creek Dist. Address County Clk., Keyser.

W. Va., Parsons—Tucker County plans election to vote on $500,000 road bonds. Address County Clk., Parsons.

W. Va., Ravenswood—Ripley County election Oct. 7 to vote on $150,000 road bonds. Address County Clk., Ravenswood.

W. Va., Ripley—Jackson County Ravenswood Dist., election Oct. 3 to vote on $150,000 road bonds. Address County Clk., Ripley.

W. Va., Wellsburg—(Official)—Brooke County receiving bids Oct. 20 for 10.5 mi. road. C. A. Eichelberger, Wellsburg, County Engr.

N. C., Trenton—Jones County, Trenton Township, voted $15,000 road bonds. Address County Clk., Trenton.

N. C., Wilkesboro—Wilkes County voted $250,000 road bonds. Address County Clk., Wilkesboro. Noted Aug. 31.

S. C., Chester—(Official)—City receives bids in about 60 days for paving estimated to cost $15,000. J. Hamilton, City Engr. Noted Sept. 14.

S. C., Greenwood—City plans sidewalks on portions Magnolia, Reynolds and Pressley St. and Oak Haven Court.

Fla., Bradentown—Manatee County making surveys for road and bridge work in Englewood Special Rd. and Bridge Dist. Address County Clk., Bradentown.

Fla., Brooksville—City receiving bids Oct. 19 for 7,140 sq.yd. concrete paving and 5,640 ft. concrete curb. About $9,469 available. H. McElroy, Tampa, Engr. Noted Aug. 31.

Fla., Mayo—City election Oct. 17 to vote on $600,000 road bonds. C. E. Henderson, City Engr.

Fla., Panama City—(Official)—Bay County voted $375,000 road bonds. Address County Clk., Panama City. Noted Sept. 7.

Fla., Tavares—Lake County, Leesburg-Howey Special Rd. Dist., voted $65 000 bonds for sand asphalt road connecting Howey with Leesburg. Address County Clk., Tavares.

Ala., Birmingham—City Com. ordered paving portion 15th Ave., about $10,600. J. Kendrick, City Engr.

Ala., Gadsden—City plans to pave portion 5th St., bitulithic. E. Smith, City Engr.

Ala., La Fayette—Chambers County receiving bids Oct. 20 for grading, draining and surfacing with top soil portion State Trunk Rd. No. 13, about $5,000. W. S. Keller, Montgomery, State Highway Engr.

Ala., Vernon—Lamar County Highway Comrs. receiving bids Oct. 9 for 16 mi. highway to complete route of proposed Jackson Highway through county. Address County Clk., Vernon. Noted Sept. 14.

Miss., De Kalb—(Official)—Kemper County receiving bids Oct. 11 for 50 mi. sand clay roads, Dists. Nos. 1 and 5. Snowden & Hauser, Columbus, Consult. Engr. Noted Sept. 14.

Miss., Ellisville—Jones County plans $300,000 bond issue for roads. Address County Clk., Ellisville.

Miss., Holly Springs—(Official)—Comrs. Marianna Rd. Dist. receiving bids Oct. 5 for 14 mi. sand clay roads including bridges and culverts. W. G. Kirkpatrick, 704 Farley Bldg., Birmingham, Ala., Engr. Noted Aug. 31.

Miss., Holly Springs—(Official)—Comrs. Marianna Rd. Dist. receiving bids Oct. 1 for $25,000 road bonds. Address L. J. Fant, Holly Springs.

Miss., Houston—Chickasaw County Comrs. receiving bids Oct. 6 for 8-mi. gravel road in Beat No. 1. Address County Clk., Houston.

Miss., Port Gibson—City receiving bids Oct. 2 for about 6 mi. sidewalks. C. R. Wharton, City Clk.

Miss., Winona—Citizens voted $100,000 road bonds. W. F. Blackston, City Clk. Noted Sept. 14.

La., Alexandria — (Official) — Comrs. Rapides Rd. Dist. No. 6 receiving bids Oct. 5 for about 17 mi. gravel road. H. S. Burrowes, Chn. I. W. Sylvester, Engr.

La., Columbia—Caldwell County plans election to vote on $40,000 road bonds. Address County Clk., Columbia.

La., Lake Charles—Calcasieu County, Calcasieu Parish, voted $900,000 road bonds. Address Clk., Lake Charles.

Tenn., Centerville—Hickman County voted $225,000 road bonds. J. T. Bates, Centerville, County Judge. Noted Aug. 10.

Tenn., Fayetteville—Lincoln County election Oct. 7 to vote on $450,000 bonds for road work. Address County Clk., Fayetteville.

Tenn., Manchestter—Coffee County plans bond issue for roads. Address County Clk., Manchester.

Tenn., Newport—Council passed ordinance to pave 2 mi. streets.

Tenn., Shelbyville—Bedford County defeated $350,000 road bonds. Noted Aug. 31.

Tenn., Waynesboro—Wayne County defeated $150,000 road bonds. Noted July 20.

Ky., Covington—City plans election to vote on $500,000 bonds for street improvements and bridges. H. G. Meiners, City Engr.

Ky., Harlan—City plans to macadamize Elm, Central, Mound, Main, Clover and 1st St.

Ky., Hickman—City plans to spend about $20,000 or $25,000 for street improvements and drainage.

Ky., Hopkinsville—(Official)—Rd. Comn. of Christian County, Court House, Hopkinsville, receiving bids Oct. 3 for resurfacing Sect. 7 of Greenville Rd., 12 mi.; Sect. 8 of Julien Rd., 9 mi.; Sect. 9 of Gracey Rd., 9 mi. L. J. Harris, Hopkinsville, County Clk. C. Folsom, County Bldg., Engr.

Ky., Pineville—Bell County election Nov. 7 to vote on $105,000 road bonds. Address County Clk., Pineville.

Ohio, Athens—Council passed resolution to improve portion Congress St. J. R. Sands, City Engr.

Ohio, Bay Village—Town receiving bids Oct. 17 for purchase of $72,267 road bonds. A. L. Miller, Clk. Noted Sept. 7.

Ohio, Cincinnati—City receiving bids Oct. 2 for paving Cora Ave. F. Krug, City Engr.

Ohio, Cincinnati—Council approved paving portions Eastern Ave., wood block or granite, about $80,537; Quebec Rd., granite, $214,375, macadam, $159,255. F. Krug, City Engr.

Ohio, Cincinnati—Hamilton County plans to improve Salem Pike, about $12,000. W. Boeh, Cincinnati, County Surv.

Ohio, Cincinnati—Council to appropriate $80,000 for widening and improving Hoppel St. F. Krug, City Engr.

Ohio, Circleville—Council sold $34,000 street improvement bonds.

Ohio, Cleveland Heights—(Warrensville post office)—Village receiving bids Oct. 16 for paving Coventry Rd., brick, asphalt or macadam. H. H. Canfield, Village Clk.

Ohio, Columbus—Franklin County receiving bids Oct. 16 for road work in Pleasant Township. J. Scott, Columbus, County Clk. J. Peake, County Engr.

Ohio, Dayton—Council passed resolution to lay cement sidewalks on portion Milton St. F. O. Eichelberger, City Engr.

Ohio, Defiance—City sold $21,000 road bonds. V. D. Weisenburger, City Clk.

Ohio, London—Madison County receives bids about Oct. 15 for 1.7 mi. macadam on Cemetery Pike, Darby Township. A. Blacker, London, County Audr.

Ohio, Marion—Marion County receives bids about Oct. 15 for 3½ mi. macadam on Greenwood Rd., Salt Creek Township. P. Garfield, Marion, Clk.

Ohio, Pomeroy—(Official)—Village receiving bids Oct. 16 for paving portion Mechanic St., brick. W. J. Jones, Clk.

Ohio, Sebring—(Official)—Village receiving bids Oct. 9 for curbing and paving portion Oregon and Indiana Ave. and 18th St. H. Jenkins, Clk.

Ohio, Steubenville—Council passed ordinance to pave portion Henry Ave. J. N. Leech, City Engr.

Ohio, Suffield—Town receiving bids Oct. 2 for purchase of $20,000 road bonds. V. Miller, Clk.

Ohio, Warren—Council passed resolution to improve portion Hunter St. H. S. McKibben, City Engr.

Ohio, Warren—Council passed resolution to improve 1st St. H. G. McKibben, City Engr.

Ohio, Warren—Council passed ordinance authorizing $19,000 bond issue for improving Buckeye and Mulberry St. H. S. McKibben, City Engr.

Ohio, Woodsfield—(Official)—Village receiving bids Oct. 14 for curbing and paving with vitrified brick, also sewering, Home Ave. G. P. Dorr, Woodsfield, Clk.

Ohio, Xenia—City sold $91,000 paving bonds. J. P. Shumaker, City Engr.

Ind., Bedford—St. Lawrence County receiving bids Oct. 3 for gravel or macadam roads in Shawswick, Marshall, Guthrie and Spice Valley Township. E. W. Edwards, Bedford, Audr.

Ind., Bloomfield—Greene County receiving bids Oct. 3 for macadam roads in Stafford and Jefferson Township. G. E. Kidd, Bloomfield, Audr.

Ind., Brookville—Franklin County receiving bids Oct. 2 for 15,400-ft. road in Brookville Township. C. G. Reifel, Brookville, Audr.

Ind., Columbia City—Whitley County receiving bids Oct. 4 for gravel road in Cleveland Township. T. A. McLaughlin, Columbia City, Audr.

Ind., Corydon—Harrison County receiving bids Oct. 3 for gravel or macadam roads in Webster, Blue River and Harrison Townships. J. L. O'Bannon, Corydon, Audr.

Ind., Frankfort—Clinton County receiving bids Oct. 4 for gravel road in Forest Township. E. Spray, Frankfort, Audr.

Ind., Huntington—Huntington County receiving bids Oct. 4 for 2 roads in Union Township. O. E. Eviston, Huntington, Audr.

Ind., Indianapolis—Marion County receiving bids Oct. 6 for graveling or macadamizing road in Franklin Township. L. K. Fesler, Indianapolis, Audr.

Ind., Kokomo—Howard County receiving bids Oct 3 for stone road in Clay Township. W. L. Benson, Kokomo, Audr.

Ind., Lafayette—Tippecanoe County receiving bids Oct. 7 for 0.48 mi. road in Washington Township, 2.77 mi. in Perry Township and 2.48 mi. in Shelby Township. G. W. Baxter, Lafayette, Audr.

Ind., Laporte—Laporte County receiving bids Oct. 5 for roads in Lincoln, Clinton and Prairie Townships. F. A. Hausheer, Laporte, Audr.

Ind., Lawrenceburg—Dearborn County receiving bids Oct. 3 for road in Lawrenceburg Township. H. E. Lutherbeck, Lawrenceburg, Audr.

Ind., Liberty—Union and Franklin Counties, Liberty, receiving bids Oct. 14 for county line gravel road. G. W. Wray, Liberty, Audr. Union County.

Ind., Logansport—Cass County receiving bids Oct. 3 for road in Clay Township. A. P. Flynn, Logansport, Audr.

Ind., Martinsville—Morgan County receiving bids Oct. 3 for gravel roads in Jackson and Monroe Townships. S. Watson, Martinsville, Audr.

Streets and Roads (Continued)

Ind., Monticello—White County receiving bids Oct. 3 for crushed stone road in Union Township. A G. Fisher, Monticello, Audr.

Ind., Rensselaer—Jasper County receiving bids Oct. 3 for stone roads in Gillam and Jordan Township and 1 in Jordan and Marion Townships. J. P. Hammond, Rensselaer, Audr.

Ind., Rockport—Spencer County receiving bids Oct. 7 for 4,200-ft. waterbound rock roads. J. F. Stocking, Rockport, Audr.

Ind., Rockville—Parke County receiving bids Oct. 3 for gravel roads in Liberty Township. C. Davis, Rockville, Audr.

Ind., Shelbyville—Shelby County receiving bids Oct. 4 for gravel road in Hanover Township. F. W. Fagel, Shelbyville, Audr.

Ind., Versailles—Ripley County receiving bids Oct. 2 for crushed stone road in Laughery Township. J. F. Lochard, Versailles, Audr.

Ind., Vincennes—Knox County receiving bids Oct. 3 for 11,200-ft. gravel road in Johnson Township and 15,840-ft. gravel road in Harrison Township. J. I. Muentzner, Vincennes, Audr.

Ind., Washington—Daviess County receiving bids Oct. 3 for gravel road in Veale Township. J. G. Clark, Washington, Audr.

Ind., Winamac—Pulaski County receiving bids Oct. 3 for gravel road. W. E. Munchenberg, Winamac, Audr.

Ill., Jacksonville—City plans to curb, gutter and pave West State St., asphalt, about $50,000. E. M. Henderson, City Engr.

Ill., Pontiac—City plans to spend about $38,400 for street paving. Contract to be let about February. J. C. Wade, City Engr.

Wis., New London—City plans to pave portions Wolf River Ave. and East Water St., about 10,050 sq.yd. concrete. H. R. Alberts, Court House, Green Bay, Engr.

Iowa, Red Oak—Montgomery County receiving bids Oct. 2 for grading highway, about 22,000 cu.yd. excavation. F. Osborn, Red Oak, Audr. C. D. Forsdeck, County Engr.

Kan., Augusta—(Official)—City soon lets contract for 10 blocks brick paving including guttering. J. R. Switzer, City Engr. Noted Sept. 7.

Kan., Columbus—(Official)—City receiving bids Oct. 4 for about 16,952 sq.yd. paving and 4,762 lin.ft. curb and gutter. F. H. Hawkins, City Clk. Noted Aug. 31.

Kan., Hoisington—Preliminary plans being made for paving various streets. W. B. Rollins & Co., 439 Railway Exchange Bldg., Kansas City, Mo., Engr.

Kan., Lawrence—City voted $39,836 street improvement bonds. E. H. Dunn, City Engr.

Neb., Fairbury—City election Oct. 10 to vote on $50,000 paving bonds. E. A. Wunder, City Clk.

Neb., Grand Island—City receiving bids Oct. 18 for paving in Dist. No. 20. H. W. Kibbey, City Engr.

Mont., Anaconda—(Official)—City receiving bids Oct. 2 for paving and curbing in Special Impvt. Dist. No. 90. M. J. Kelly, City Clk. W. B Vestal, Jr., City Engr.

Mont., Bozeman—City receiving bids Oct. 5 for paving in Special Impvt. Dist. No. 125. C. C. Widener, City Engr.

Mont., Miles City—City soon receives bids for paving Main St.

Mo., Boonville—City plans to pave portion 6th St. E. T. Hale, Engr.

Mo., Carthage—City rejected bids for paving Grant and Main St. New bids. F. B. Newton, City Engr. Noted May 18.

Mo., St. Louis—Bd. Pub. Ser., Room 315, City Hall, receiving bids Oct. 10 for brick paving and granite curb portion Vermont Ave., $11,650; bitulithic paving and granite curb portion Clarence Ave., $8,850; bitulithic paving and concrete curb portion Wallace St., $15,150; bitulithic pavement and concrete curb portion Thekla Ave., $7,150. E. R. Kinsey, Pres.

Mo., Springfield—City rejected bids for paving Kickapoo Ave. New bids. O. D. Chrisman, City Engr. Noted Aug. 10.

Ark., Conway—H. R. Carter, State Highway Engr., Little Rock, made plans for gravel road from Conway to Saltillo, about $35,000.

Ark., Evening Shade—H. R. Carter, State Highway Engr., Little Rock, made plans for 50 mi. gravel road across Sharp County, about $95,000.

Ark., Forrest City—City making plans for paving about 6 mi. streets, asphalt or macadam, about $40,000. Landon & Hill, Little Rock, Engr.

Ark., Yellville—Marion County Comrs. will construct several miles of roads. J. F. Carson, Yellville, County Judge.

Tex., Bastrop—Bastrop County plans election to vote on $500,000 road bonds. Address County Clk., Bastrop.

Tex., Boerne—Kendall County plans election to vote on $125,000 road bonds. Address County Clk., Boerne.

Tex., Corpus Christi—City making plans for paving Williams, Taylor, Twigg and Mann St. and lower Broadway, bitulithic. About $150,000 available. H. A. Stevens, City Engr. Noted July 20.

Tex., Dallas—City plans to pave Oak Lawn Ave., bitulithic. H. Moseley, City Engr.

Tex., Franklin—Robertson County plans election to vote on $125,000 road bonds. Address County Clk., Franklin.

Tex., Gainesville—City plans to pave several streets. S. J. Brazetton, City Engr.

Tex., Hillsboro—City soon lets contract for street improvements to cost about $10,000. F. C. Metzger, City Engr. Noted Aug. 10.

Tex., Quitman—Wood County plans election to vote on $150,000 roads bonds for Dist. No. 6. Address County Clk., Quitman.

Tex., San Antonio—Toll Road Co. to build road to Medina Dam under supervision of C. X. Gutzeit About $40,000.

Okla., Bartlesville—City soon receives bids for 30 blocks concrete paving. E. D. Kilpatrick, City Engr.

Okla., Grove Hill—Clarke County receiving bids Oct. 17 for improving portions Jackson and West Bend Rd. A. L. Smith, Grove Hill, County Engr.

Okla., Miami—Ottawa County, Quapaw Township, voted $40,000 road bonds. Noted May 18.

Okla., Weatherford—Custer County plans election to vote on $100,000 road bonds. Address County Clk., Weatherford.

Colo., Boulder—Council passed ordinance to build sidewalks on 10th and 11th St. J. R. Joslyn, City Engr.

N. Mex., Roswell—Chaves County plans $100,000 bond issue for road work. Address County Clk., Roswell.

Idaho, Pocatello—Council passed ordinance to improve South 3rd St., about $42,003; also grade and pave streets in Dist. No. 14. G. H. Giles, City Engr.

Idaho, Twin Falls—Council passed ordinance to pave 8th Ave., about $18,500. J. A. Bybee, City Engr.

Wash., Aberdeen—Council authorized street and drainage improvements in district west of Division St., about $26,000. L. D. Kelsey, City Engr.

Wash., Prosser—State Highway Comn., Olympia, receiving bids Oct. 9 for surfacing about 2 mi. Inland Empire Highway in Benton County. J. Allen, Olympia, Secy.

Calif., Fairfield—Solano County receiving bids Oct. 2 for graveling portion Rd. No. 21. G. G. Halliday, Fairfield, County Clk.

Calif., Fresno—City passed resolution to pave portion Franklin Ave. B. E. Kronkite, City Engr.

Calif., Hanford—Kings County receiving bids Oct 2 for highway No. 4, Divs. Nos. 1 and 2, about 9,500 cu.yd. excavation and 801,397 sq.ft. base and wearing surface. E. F. Pickerill, Hanford, County Clk.

Calif., Jackson—Amador County plans to spend about $12,000 for improving highways. Address County Clk., Jackson.

Calif., Oakland—City receiving bids Oct. 6 for improving Oak St. P. J. Brown, City Engr.

Calif., Red Bluff—Tehama County receiving bids Oct. 3 for graveling portion Paynes Creek Highway. H. G. Kuhn, Red Bluff, County Clk.

Calif., Sacramento—State Highway Comn., 595 Forum Bldg., receiving bids Oct. 9 for grading 3.6 mi. highway between Cotati and Petaluma.

Calif., Stockton—San Joaquin County receiving bids Oct. 3 for improving about 2 mi. Brookside Tract Highway. E. D. Graham, Stockton, Clk.

Ont., Hamilton—Council plans to spend $10,000 for road work.

Ont., Ottawa—City plans to spend about $11,261 for asphalt paving and sidewalks on Somerset St.

Ont., Walkerville—Council soon receives bids for 6,000 sq.yd. concrete paving. A. Miers, Clk.

Bids In and Contracts Awarded

N. H., Franklin—City let contract paving portion Central St. to WARREN BROS. CO., Boston, about $38,000. Noted July 27.

Mass., Boston—State Highway Comn. let contract section highway in Kingston to THOMAS & MURPHY, Middleboro, $6,433.

Conn., Bridgeport—Paving and Sewer Comn. let contract paving and sewers to E. D. TOMPKINS, INC., about $223,089.

Conn., Hartford—State Highway Comn. let contract 2 sections pavement on Smith Ridge Rd. and South Ave., New Canaan Township, to WARREN BROS. CO., 142 Berkeley St., Boston, about $48,000. Noted Aug. 10.

Conn., Hartford—State Highway Comn. let contracts road work to MASCETTI & HOLLEY, 72 Main St., Torrington, about $44,000.

Conn., Meriden—(Official)—Bd. Pub. Wks. let contract paving Veteran St. to L. SUZIO CONSTRUCTION CO., Meriden, $9,343. Noted Sept. 14.

N. Y., New York—(Brooklyn)—(Official)—Bids for curbing, paving and building sidewalks on portion Ave. J rejected. Noted Sept. 7.

N. Y., New York—(Brooklyn)—(Official)—Borough received low bid paving portion Smith St. from Newman & Carey Co., 1228 Nostrand Ave., $22,272; 88th St., McKenna & Gallagher, 1386 Sterling Pl., $6,046. Noted Sept. 14.

N. Y., New York—(Manhattan)—(Official)—Borough let contract paving 39th and 55th St. to SICILIAN ASPHALT PAVING CO., 41 Park Row; 125th St., ASPHALT CONSTRUCTION CO., Madison Ave. and 137th St.

N. Y., New York—(Manhattan)—(Official)—Low bidders paving West 134th St. from Broadway to Riverside Dr. were: Summit Engineering and Construction Co., $49,820; P. J. Duffy, $50,531; Dimenna & De Balso, $51,060.

N. Y., New York—(Manhattan)—(Official)—Low bidders street improvements were: Uvalde Asphalt Paving Co., 1 Broadway, Park Row, $17,981, Cathedral Pkway, $23,701; Asphalt Construction Co., Madison Ave. and 137th St., 88th St., $20,772, 126th St., $23,759.

N. Y., New York—(Manhattan)—(Official)—Barber Asphalt Paving Co., Woolworth Bldg., at $6,656, low bidder repaving approaches of City Island bridge over Pelham Bay Narrows. Noted Sept. 21.

N. Y., New York—(Richmond)—(Official)—R Lamb, 90 West St., Manhattan, at $24,632, low bidder repaving portions Willow Brook and Port Richmond Rd. Noted Sept. 14.

N. Y., New York—(Richmond)—(Official)—J. I Donovan, 2205 Richmond Terrace, Port Richmond, at $17,497, low bidder repaving portion Orient Ave., Louis and Prospect St. Noted Sept. 14.

N. Y., New York—(Richmond)—(Official)—J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $23,290, low bidder repaving portion Westervelt Ave. Noted Sept. 14.

N. Y., New York—(Richmond)—(Official)—UVALDE ASPHALT PAVING CO., 1 Broadway, Manhattan, awarded contract for paving portion Amboy Rd., about $95,677. Noted Sept. 7.

N. Y., Olean—City let contract paving portion West Sullivan St. to BUNCE & CARL, 125 Fulton St., $4,500. Noted Aug. 3.

N. Y., Rensselaer—City let contract paving portions 1st St. to A. A. FOULER, 876 Broadway, $9,525. Noted Aug. 10.

N. J., Atlantic City—Bd. Comrs. let contract improving portions New Hampshire and other avenues to WARNER-QUINLAN ASPHALT CO., Syracuse, about $193,509. Noted Sept. 21.

N. J., Hackensack—City let contract surfacing portion State St. to E. C. HUMPHREY, Main St., about $13,522.

N. J., Hackensack—Joint Rd. Com. of Bergen and Hudson Counties, Hackensack, let contract improving Belleville Turnpike to C. T. KAVANAUGH, 34 West 55th St., Bayonne. Noted Sept. 21.

N. J., Ridgewood—(Official)—Bd. Comrs. let contract macadamizing portion Lenox Ave. to E. B. VAN HORN; curbs, gutters and concrete sidewalks on Clermont Rd., J. G. HOPPER. Noted Sept. 14.

N. J., South Orange—Village let contract curbing and paving portion Academy St. to J. SILETTO, about $5,000.

Penn., Arnold—Borough let contract curbing and grading Woodmont Ave. and McCandless St. to W. W. SCHULTZ, New Kensington.

Penn., Cannonsburg—Town let contract paving South Central Ave. to PITTSBURGH SANITARY FLOORING CO., $6,285; Murdock St., R. WILSON, $5,542. Noted Sept. 7.

Penn., Lemoyne—Council let contract macadamizing Bosler Ave. to W. MARTIN, West Fairview.

Penn., Pittsburgh—(Official)—Allegheny County let contract Glass and West Run Rd. to McCRADY BROS. CO., Braddock, $61,402; Wilmerding and Monroeville Rd., R. H. CUNNINGHAM & SONS, Turtle Creek, $17,780.

Penn., Pittsburgh—(Official)—Allegheny County let contract improving Sect. "O" Banksville Rd. to H. McMULLEN CO., Banksville, $22,430. Noted Sept. 14.

Penn., Pittsburgh—Bd. Education let contract excavating and grading around New Greenfield School, Haworth St., to S. GAMBLE CO., 230 East Main St., Carnegie, about $19,167.

Penn., Pittston—City let contract paving Blackman Alley and Race St. to PERRY & DAVIS, about $5,168.

Penn., Uniontown—North Union Township let contract improving Laurel Hill Rd. to REAGAN, LYNCH & CO.

Md., Baltimore—City let contract grading and paving 25 alleys to CONTINENTAL CONTRACTING CO., $26,325; SLINGLUFF-BROWNE CO., 1405 Munsey Bldg., $11,970; ARUNDEL CONSTRUCTION CO., 329 South Caroline St., $8,348. Noted Sept. 14.

Md., Frederick—Frederick County received low bid Monrovia-Hyattstown Rd. from H. W. KAYLOR, Hagerstown, about $14,719.

Va., Salem—(Official)—Roanoke County rejected bids for 8 mi. macadam road. Noted Sept. 7.

Va., Suffolk—City let contract curbing and guttering to HECK & CLARK, about $8,000.

W. Va., Piedmont—(Official)—City let contract 8,400 yd. paving, including curbing, to ATLANTIC

Streets and Roads (Continued)

BITULITHIC CO., Richmond, $16,600; 11,800 sq.yd. to H. F. SMITH, Piedmont, $21,600. Noted Sept. 7.

W. Va., Wheeling—City let contract paving Brookside Ave. to LEMMON & LYLE, Wheeling, about $7,200.

N. C., Greenville—City let contract 70,000 sq.yd. paving to SOUTHERN PAVING CONSTRUCTION CO., Chattanooga. Noted June 22.

Fla., Palatka—Putnam County let contract 11 mi. road to GLISSON & HANCOCK, about $23,500. Noted Sept. 21.

Ala., Athens—Limestone County to improve portion Jackson Highway by force account, about $9,000 available. Noted Sept. 21.

Ala., Rockford—(Official)—Coosa County let contract 25 mi. road to STANLEY & LINGER, Lafayette, $44,145. Noted Aug. 31.

Miss., Moss Point—City let contract 5 mi. paving to JETT-MUTH CONSTRUCTION CO., Mobile, Ala.

Tenn., Jackson—City let contract 32,500 sq.ft. sidewalks to T. L. HILLIARD, Jackson.

Ky., Harrodsburg—City let contract paving Main St., asphaltum, to WINCHESTER CONSTRUCTION CO., Winchester, and J. HARVEY VAN DIVER, Harrodsburg.

Ky., Lexington—City let contract paving portion Cramer and Arceme Ave. to CAREY-REED CO., Lexington.

Ky., Louisville—Bd. Pub. Wks. let contract improving 2d St. to LOUISVILLE ASPHALT CO., Louisville, $6,850.

Ky., Mt. Sterling—City let contract paving portion Richmond Ave. to J. RICHARDS.

Ohio, Akron—Summit County received low bid improving Wooster Rd. from J. M. DAVIDSON, $53,663. Noted Aug. 31.

Ohio, Canton—Stark County let contract paving Freeburg Rd. Extension, Washington Township, to W. Vogt, Massillon.

Ohio, Cincinnati—City let contract improving portion Altoona St. to KIRSCHNER CONSTRUCTION CO., 221 West 9th St.

Ohio, Dayton—City let contract paving Lakeview Ave. to E. RYAN, Springfield, $41,998; Western Ave. GEIGER & FINKE, $13,575.

Ohio, Dover—City let contract repaving Wooster Ave. to McELFRESH, DANFORTH & GLOVER, Caldwell, $7,599. Noted June 8.

Ohio, Mingo—City let contract paving St. Clair St. brick to BICKERSTAFF & PATTERSON, $7,231. Noted Aug. 3.

Ohio, Oak Hill—State Highway Comn., Columbus, let contract improving portion Jackson-Oak Hill Rd. to MAHL BROS., Ironton, about $29,061.

Ohio, Shaker Heights—Village let contract for road improvements, (4) jobs, to CLEVELAND TRINIDAD PAVING CO., 420 Lakeside Ave., Cleveland. Noted Sept. 14 under "Water-Works."

Ohio, Springfield—City let contract paving portion Euclid Ave. to KRUMHOLTZ & HOUNKER, about $36,000. Noted Aug. 10.

Ohio, Steubenville—City let contract paving St. Clair St. to PATTERSON & BICKERSTAFF.

Ohio, Wapakoneta—Auglaise County let contract Bowsher Pike to T. E. BOWSHER, F. REDDICK and R. F. BAKER about $19,000.

Ohio, Wooster—County let contract paving Mt. Eaton Rd. to LEE GRIGGS & ANDERSON, about $64,000. Noted Sept. 14.

Ohio, Zanesville—City let contract paving portion Moorhead Ave. to BOLEN & HOWELL, $5,772.

Ind., Cannelton—County received no bids for stone road in Oil Township. Noted Aug. 17.

Ind., Ft. Wayne—Board Pub. Wks. let contracts sidewalks to GROSJEAN & ROEMER.

Ind., Marion—Board Wks. let contract improving portion 22nd St. to D. ARTIS.

Ind., New Albany—County let contract Green Valley Rd. No. 3, New Albany Township, to W. F. WOODRUFF, Louisville, about $15,007.

Ind., Portland—Jay County let contract brick roads in Wayne and Richland Townships and stone road in Pike Township to W. R. SPRINKLE, Portland, $19,324. Noted Sept. 21.

Ill., Chicago—Cook County let contract 4¾ mi. concrete paving in Breen Township to J. A. McGARRY CO., Chicago, about $89,186.

Ill., East St. Louis—City let contract paving portion 23rd St. to McCABE & MAULE CONSTRUCTION CO., $28,000. Noted July 27.

Ill., Elgin—(Official)—City let contracts paving to ILLINOIS HYDRAULIC STONE AND CONSTRUCTION CO., Elgin, Monroe St., $5,469, Worth Ave., $7,686; McCARTHY IMPROVEMENT CO., Davenport, Iowa, Douglas Ave., $16,983.

Ill., Jacksonville—Interstate Paving Co., $7,722, only bidder paving South Clay Ave.

Ill., Paris—Edgar County let contract graveling Preston Rd. to C. & B. CONNERY; Asher Rd., L. E. FORD; Morris Rd., B. BAUM.

Ill., Rock Island—City let contract paving portion Railroad Ave. to CONCRETE CONSTRUCTION CO. Noted Aug. 31.

Ill., Rock Island—City let contract paving portion 10th Ave. to CONCRETE CONSTRUCTION CO., $1.95 per sq.yd. Noted Aug. 31.

Ill., Rock Island—City let contract paving portion 23d St. to TRI-CITY CONSTRUCTION CO., 304 Putnam Bldg., Davenport, Iowa. Noted Apr. 13.

Wis., Green Bay—Council let contract improving South Broadway to F. P. COUGHLIN, Milwaukee.

Wis., Racine—Board Pub. Wks. let contract 40,000-ft. cement sidewalks to FLEXIBLE CONSTRUCTION CO. and JENSEN & PETERSEN. Noted Sept. 21.

Iowa, Ottumwa—(Official)—City let contract paving portion West 2d St. to J. C. BLUMK, Ottumwa, about $35,000. Noted Sept. 7.

Minn., Duluth—City let contract paving 6th Ave. to J. JOHNSON, $19,649. Noted Sept. 14.

Kan., Hutchinson—City let contract paving 13th St. to BEEBE BROS., $17,150; 19th St., STEAMEY-MACKEY CONSTRUCTION CO., $6,205. Noted Aug. 31.

Kan., Lavenworth—City let contract paving Broadway to E. JONES. Noted Sept. 21.

Minn., St. Paul—City let contract grading Grantham St., E., to E. JOHNSON, $4,284.

N. D., Bismarck—City let contract paving to FORD PAVING CO., about $450,000 or $500,000.

N. D., Bismarck—City let contract 43,600 sq.yd. paving in business Dist. to HANLON & OKES, Minneapolis $114,872. Noted Aug. 17.

Wyo., Casper—City let contract paving to WARREN CONSTRUCTION CO., Portland, about $40,000. Noted Aug. 10.

Mont., Billings—(Official)—City let contract for paving in Dist. No. 152 to WARREN CONSTRUCTION CO., $51,564. Noted Aug. 31.

Mont., Helena—City let contract paving portion Broadway to D. SWEENEY, $5,395. Noted Aug. 10.

Mo., Dexter—City let contract 7 blocks paving to F. CARMEAN, Dexter, about $17,000.

Mo., Hannibal—City let contract paving Union St. to WILSON & YOEMAN. Noted Sept. 7.

Mo., St. Joseph—City let contract paving portion Edmonton St. to METROPOLITAN PAVING CO.; Corby-Forsee Bldg., $6,931.

Mo., St. Louis—Bd. Pub. Ser. received bids improving portion Destrehan St. from Perkinson Bros., 3237 Carter Ave., $7,738; Skranka Construction Co., Security Bldg., $7,883; T. E. Cavanaugh, 5335 Minerva Ave., $7,940. Noted Sept. 7.

Mo., St. Louis—Bd. Pub. Ser. received bids for improving portion Locust St. from Trinidad Asphalt Manufacturing Co., $68,133, and F. P. McCormick, $69,209. Noted Sept. 7.

Ark., Van Buren—Comrs. Paving Dist. No. 2 let contract paving to A. ELEFFSON, Ft. Smith, about $12,000.

Tex., Houston—Harris County let contract paving Clinton Rd. to P. G. BURNS, $6,810; gravel for same to EAGLE LAKE GRAVEL CO., $5,400; Alameda Rd., COUCH & HOLLIGER, $5,060.

Tex., Sweetwater—City let contract paving portion Locust and Ash St. to J. ASH, about $10,988.

Okla., Blackwell—City let contract paving in Dists. Nos. 2 and 3 to M. A. SWATEK & CO., Oklahoma City.

Utah, Ogden—City let contract paving portion Lincoln Ave. to J. P. O'NEILL CONSTRUCTION CO., Ogden, about $37,755.

Utah, Salt Lake City—(Official)—City let contract paving Beck St. to J. W. MELLEN, Auditorium Bldg., $35,616. Noted Sept. 7.

Wash., Camas—City let contract paving Clark St to A. J. WELTON, Portland, about $5,967. Noted Sept. 14.

Wash., Okanogan—City let contract improving 4th and 2d Ave. to L. M. DAVENPORT, Omak, and C. SCHALLER, Okanogan, about $13,000.

Wash., Port Angeles—City let contract 7 blocks paving to J. TORNEI & CO., Port Angeles, $21,404.

Wash., Seattle—City let contract improving Alki Ave. and other streets to D. H. TRAPHAGEN, 806 Alaska Bldg., $26,207.

Wash., Seattle—Coluccio & Niblett, 1641 Lane St., at $36,473, low bidder paving Rainier Ave. Noted Sept. 14.

Wash., Seattle—J. A. Baumgartner, 711 16th Ave., at $21,228, low bidder paving Olive St. Noted Aug. 3.

Wash., Waterville—Douglas County let contract Permanent Highway No. 4 to J. T. SMITH, Prosser, about $19,879. Noted May 25.

Ore., Portland—Council let contract paving East Davis and East 16th St. to OREGON HASSAM PAVING CO., Portland, $13,051. Noted Sept. 14.

Calif., Auburn—City let contract highway to PAUL & CALDWELL, Stockton.

Calif., Burlingame—San Mateo County let contract paving FEDERAL CONSTRUCTION CO., Sharon Bldg., S. F., $4,000.

Calif., Colusa—Colusa County rejected bids for improving Sycamore Highway. Work to be done by day labor.

Calif., Fresno—City let contract improving South Angus St. and 2 alleys in Blk. No. 127 to THOMPSON BROS. Noted Sept. 7.

Calif., Hanford—Kings County let contract 15.25 mi. Highway No. 3, Div. 2 and 1A, Sects. 2 and 3, to RAISCH IMPROVEMENT CO., San Francisco, $61,387.

Calif., Lindsay—City let contract 9 blocks paving to WORSWICK STREET PAVING CO., Fresno. Noted July 13.

Calif., Los Angeles—City let contract improving Normal Ave. to COAST CONSTRUCTION CO., 1419 East 29th St., about $7,703.

Calif., Los Angeles—City let contract improving portion Gaffey St. to FAIRCHILD-GILMORE-WILTON CO., Pacific Electric Bldg., $33,228.

Calif., Los Angeles—Los Angeles County received bids improving Wright and Tweedy Rd., Dist. No. 94, from R. H. McCray Co., 422 American Bank Bldg., $19,338; White & Gaskill, $19,400; F. Hoffman, $19,500.

Calif., Oakland—City let contract improving 11th and Fallon St. to OAKLAND PAVING CO., 5,000 Broadway; Fairfax Ave and Delaware St., HUTCHINSON CO., 13th and Franklin St.

Calif., Pasadena—City let contract improving Holliston Ave. to T. G. BREITENSTEIN, 465 Van Wyck St., $10,778. Noted Aug. 3.

Calif., Sacramento—City let contract improving Crandall Lane and Sacramento Ave. to CLARK & HENEREY CONSTRUCTION CO.

Calif., Sacramento—City let contract improving Spafford Ave. to A. TEICHERT & SON.

Calif., Sacramento—City let contract sidewalks on S and T St. to L. BEANCALANA; M St., A. OLSEN, 2724 1st Ave.

Calif., San Francisco—City let contract paving and sewering Capitol Ave. to RANSOME-CRUMMEY CO., First National Bank Bldg., Oakland, $21,186.

Calif., San Francisco—City let contract grading Farallone St. to FLINN & TREACY, First National Bank Bldg., $4,557.

Calif., San Jose—Santa Clara County let contract macadam pavement on Trimble Rd. to J. P. DEMPSEY, $4,685.

Calif., San Rafael—Marin County let contract highway to S. P. BROWNLEE.

Calif., Santa Ana—Orange County let contract Sulphur Slide Highway in Santa Ana Canyon to H. CLAY, Kellogg.

Calif., Stockton—City let contract improving streets in northern part of city to CLARK & HENERY CONSTRUCTION CO., $27,227.

Calif., Ventura—Ventura County let contract grading and culverts on 2.08 mi. Santa Susana Pass Highway to C. L. HYDE CONSTRUCTION CO., 333 Spreckels Bldg., San Diego, $27,884. Noted Sept. 21.

Calif., Ventura—Ventura County let contract grading and culverts on county road to ISBELL CONSTRUCTION CO., San Diego, $4,884.

Ont., Copper Cliff—City let contract macadam road between Copper Cliff and Sudbury to LAW & CO., 136 Hillsdale Ave., E., Toronto, about $14,000.

Ont., Sudbury—City let contract concrete sidewalks to D. L. BROWN, Sudbury, about $8,000. Noted Mar. 16.

Ont., Tilbury—Council let contract paving to SCRATCH & LISK. Noted June 29.

INDUSTRIAL WORKS

Proposed Work

Mass., Boston—Boyd & Berry, 11 Grampian Way, plans 1-story, 100x120-ft. garage. About $25,000.

Mass., Boston—A. Nahass, 17 Edenboro St., making plans for 3-story factory and bakery. About $12,000. M. J. Mastrangelo, 40 Court St., Arch.

Mass., Palmer—Springfield Street Railway Co. making plans for car barn. E. L. Putnam, Mutual Bldg., Springfield, Mass., Supt.

R. I., Providence—Thomas Grimes & Bro., Inc., 191 South Main St., making plans for 2-story, 54x80-ft. garage. About $23,000. W. C. Richards, 17 Exchange St., Arch.

N. Y., Buffalo—Parke, Hall & Co. plans factory.

N. Y., Derby—E. Michael, Brisbane Bldg., Buffalo, made plans for 2-story, 40x60-ft. garage. About $20,000.

N. Y., New York—(Brooklyn)—C. A. Wheeler, 51 Beach St., making plans for factory and stable. About $75,000. Kreymborg Architectural Co., 1029 East 163d St., Arch.

N. Y., New York—(Manhattan)—Cordette Realty Co. plans 12-story garage and warehouse at 104 West 6th St. N. Hirsch, Pres.

N. Y., New York—(Manhattan)—W. Lang, 205 West 41st St., receiving bids for 5-story, 55x100-ft. brick garage at 157 East 84th St. About $70,000. C. P. Johnson, 30 East 42nd St., Arch.

N. Y., New York—(Queens)—Cambridge Soap and Chemical Co., 675 Madison Ave., Manhattan, plans 4-story factory at Hamilton and Harris Ave., Long Island City.

N. Y., Sonyea—Craig Colony for Epileptics receiving bids Oct. 10 for 2-story cold-storage plant. L. F. Pilcher, Capitol, Albany, Arch. Noted July 27.

N. Y., Thiells—See item under "Buildings."

Industrial Works (Continued)

N. J., Camden—Southwark Manufacturing Co. making plans for 1-story plant. About $20,000. Moffett & Stewart, 30 North 3d St., Arch.

N. J., Iona—J. L. Leonard plans factory.

N. J., Jersey City—Hudson Laundry Co. made plans for 1-story, 200x210-ft. laundry. About $60,000. F. A. Hale, 476 11th Ave., New York, Arch.

N. J., Plainfield—J. D. Loizeaux Co. plans factory.

N. J., Trenton—Castanea Diary Co. making plans for 3-story dairy. About $15,000. Kleeman & Fowler, First National Bank Bldg., Arch.

Penn., Chester—Chester Brewing Co. making plans for addition to plant. Pocucket & Wunder, 310 Chestnut St., Philadelphia, Arch.

Penn., Chester—G. G. Meeley of American Auto Tire Co., 154 North Broad St., Philadelphia, plans addition to factory at Chester.

Penn., Coatesville—Wagner Baking Co. making plans for 2-story, 75x140-ft. milk and cold-storage plant. About $20,000. Kern & Carroll, Pennegar Bldg., Arch.

Penn., Girardville—Valentine Manufacturing Co. making plans for factory.

Penn., Harrisburg—Pennsylvania Milk Products Co. made plans for 1-story, 40x100-ft. milk depot and dairy building. About $35,000. C. D. Cooley Co., Century Bldg., Pittsburgh, Arch. Noted Aug. 24.

Penn., Lebanon—Cornwall Ore Bank Co. plans to improve plant. About $50,000.

Penn., Philadelphia—Friehofer Baking Co. making plans for brick bakery on 42d St. Peuckert & Wunder, Arch.

Penn., Philadelphia—J. L. Heermann, 4136 Lancaster Ave., making plans for 2-story, 90x100-ft. bakery. About $25,000. C. R. Balderston, 411 Walnut St., Arch.

Penn., Pittsburgh—Kaufman Bros., 24 West Grant Ave., plans 8-story warehouse on River Ave. and Sturgiss St. About $1,000,000.

Penn., Pittsburgh—National Biscuit Co. plans factory.

Penn., Pittsburgh—Standard Underground Cable Co. plans factory at 17th and Pike St.

Penn., Reading—Reading Dyeing Co. plans additions.

Va., Staunton—State Lime Bd. plans additions to lime plant.

N. C., Bynum—J. M. Odell Manufacturing Co. making plans to rebuild plant. R. C. Biberstein, Charlotte, Arch. Noted Aug. 17.

N. C., Charlotte—Clinchfield Manufacturing Co. plans addition.

N. C., Elkin—Chatham Manufacturing Co. making plans for addition. Lockwood, Greene & Co., 60 Federal St., Boston, Mass., Arch.

N. C., Mountain Island—(Mt. Holly post office)—Armon Manufacturing Co. plans plant. About $150,000.

S. C., Greenville—American Machine and Manufacturing Co. plans additions.

Ga., Atlanta—Bird-Wilcox Co. plans plant at 24 Harwell Pl. About $10,000. G. Bird, Pres.

Ala., Anniston—Alabama Power Co. plans 5 electric steel furnaces. About $1,000,000.

Ala., Birmingham—Concrete Steel Co. plans warehouse and shipping factory. E. W. Piez, Southern Mgr.

Ala., Ensley—Birmingham Slag Co. plans additions. About $75,000.

Tenn., Oneida—G. Andrews, Pres., Richmond Hosiery Mills, Rossville, Ga., and associates plan knitting mill at Oneida.

Ohio, Alliance—Alliance Machine Co. plans additions. About $500,000.

Ohio, Cleveland—Ackerman Wheel Co. plans plant. W. A. Bennett and H. McIntyre, 1108 Engineers' Bldg., Wilmington, Del., interested.

Ohio, Cleveland—Arco Co. making plans for factory. Osborn Engineering Co., Engineers Bldg., Arch.

Ohio, Cleveland—Cleveland Co-operative Stove Co., 2323 East 67th St., plans factory on Harvard Ave., S. E. About $200,000.

Ohio, Cleveland—S. E. Detelbach, Williamson Bldg., making plans for 3-story, 100x150-ft. factory. About $15,000. Grieble Engineering Co., Cuyahoga Bldg., Arch.

Ohio, Cleveland—Fisk Rubber Co., 2037 Euclid Ave., plans 2-story, 114x120-ft. building at East 23d St. and Chester Ave., N. E. About $60,000.

Ohio, Cleveland—H. F. Neighbors plans garage and service station at East 30th and Chester St. About $35,000.

Ohio, Cleveland—Peerless Motor Car Co., East 93d and Quincy St., soon receives bids for 3-story, 65x161-ft. addition. About $150,000. E. McGeorge, 853 Leader-News Bldg., Arch. Noted Oct. 21.

Ohio, Cleveland—W. Plotz Iron Works Co., 401 Champlain Ave., made plans for 3-story factory. About $40,000. Noted July 27.

Ohio, Cleveland—Sheer Bros. Fence and Iron Co., 715 East 103d St., plans factory. About $100,000. J. T. Sheer, Pres.

Ohio, Cleveland—Swift & Co. made plans for 4-story addition to tank house at 3181 West 65th St. and 3-story fertilizer building adjoining.

Ohio, Columbus—E. W. Zigler plans 2-story rein.-con. factory on North 4th St.

Ohio, Coshocton—Compton-Price Co. plans additions.

Ohio, Coshocton—Coshocton Glass Co. plans addition to plant.

Ohio, Fremont—Herbrandt Co., East State St., plans addition. About $200,000.

Ohio, Lorain—Pennsylvania Lines west of Pittsburgh plans machine shop, roundhouse and repair yards. T. Rodd, Pennsylvania Station, Pittsburgh, Ch. Engr.

Ohio, Marysville—Standard Stamping Co. plans 1-story, 200x200-ft. addition. C. C. Armstrong, Mgr.

Ohio, Sandusky—Cleveland-Sandusky Brewing Co. plans improving Kuebeler and Stang plants. About $100,000.

Ohio, Sandusky—R. J. Dann Extract Co. plans factory.

Ohio, Warren—Trumbull Steel Co. plans additions. About $3,000,000.

Ohio, Washington C. H.—Midland Grocery Co. made plans for building. O. Darst, Arch.

Ohio, West Library—West Liberty Milk Condensing Co. plans 1-story factory. About $25,000. E. W. Neidig, 115 North 3d St., Goshen, Ind., Mgr.

Ohio, Youngstown—Republic Rubber Co. plans warehouse and addition to plant.

Ind., Ft. Wayne—Anthony Knitting Mills making plans for 2-story addition. J. M. E. Riedel, 305 Schmitz Bldg., Arch.

Ind., Jeffersonville—Pennsylvania Lines West of Pittsburgh plans roundhouse at 14th St. and Harrison Ave. T. Rodd, Pennsylvania Station, Pittsburgh, Ch. Engr.

Mich., Alma—Republic Motor Truck Co. plans addition. F. W. Rugtruck, Pres.

Mich., Detroit—Packard Motor Co. plans, 6-story, rein.-con. building. About $150,000. A. Kahn, 58 Lafayette Ave., Arch.

Mich., East Jordan—East Jordan Cabinet Co. making plans to rebuild plant.

Mich., Grand Haven—Keller Pneumatic Tool Co. plans factory.

Mich., Grand Rapids—H. E. Barclay making plans for 2-story brick and steel factory on Front Ave. H. H. Weenhoff, Arch.

Mich., Kalamazoo—Kalamazoo Malleable Iron Co. plans factory.

Mich., Muskegon—Campbell Manufacturing and Foundry Co. plans rein.-con. factory on Western Ave. About $25,000.

Mich., Muskegon—Muskegon Paper Box Co. plans 2-story brick factory on Western Ave.

Mich., Muskegon Heights—Standard Malleable Iron Works plans additions.

Mich., Niles—Towar Cotton Mills Co. plans plant. G. A. Merritt, Detroit, Secy. and Treas.

Mich., Pontiac—O. J. Beaudette Co. plans additions.

Mich., St. Joseph—Michigan Malleable Manufacturing Co. plans machine shop.

Ill., Bloomington—Motor Car Sales Co. making plans for 2-story, 100x120-ft. building.

Ill., Chicago—Acme Packing Co. making plans. About $250,000. Gardner & Lindberg, 140 South Dearborn St., Arch. Noted July 27.

Ill., Chicago—Linde Air Products Co., 42d St. Bldg., New York, plans building at Wall and 37th St About $75,000.

Ill., De Kalb—Nature's Rival Co., 1028 West Van Buren St., made plans for factory.

Wis., Grafton—Western Dyeing and Bleaching Co. making plans for 2-story, 60x100-ft. factory. About $10,000. W. F. Hilgren, Cedarburg, Arch.

Wis., Mauston—R. R. Kastner making plans for 2-story, 80x200-ft. warehouse. Pratt Bros., Arch.

Wis., Milwaukee—Industrial Controller making plans for 2-story, 60x125-ft. factory. H. C. Hengels, First National Bank Bldg., Arch.

Wis., Racine—Harvey Spring and Forging Co. plans 100x200-ft. plant. W. T. Harvey, Secy. and Treas.

Iowa, Muscatine—Iowa Culvert and Sheet Metal Co. making plans for additions.

Minn., Austin—T. Burnham made plans for brick laundry.

Minn., Minneapolis—Pure Oil Co. plans plant. About $10,000. J. Hancock, Pres.

Minn., St. Paul—Johnston Manufacturing Co. making plans for 2-story, 44x120-ft. factory. About $10,000. B. J. Taylor, 367 North Prior Ave., Arch.

Minn., St. Paul—J. T. McMillan & Co., St. Clair St., plans 5-story, 80x100-ft. rein.-con. packing plant. About $100,000.

Minn., St. Paul—Minnesota Broom Co. plans factory in Midway Sect. About $30,000.

Minn., South St. Paul—M. J. Osborn plans automobile distributing and service station and office building on Concord St. About $35,000.

Kan., Garden City—Dockum & Whitaker Mill Co. granted permit for plant on Main St.

Neb., Norfolk—Albough Dover Co. making plans for 1-story, 80x100-ft. factory. About $20,000.

S. D., Bellefourche—Great Western Beet Sugar Co., Denver, Colo., plans factory at Bellefourche.

N. D., Fargo—Great Northern Ry. plans warehouse on 4th St. A. H. Hogeland, St. Paul, Minn Ch. Engr.

Mo., Kansas City—Aines Farm Dairy Co. making plans for 3-story building at 31st St. and Gillham Rd. About $75,000. Shepard, Farrar & Wiser, Arch.

Mo., Kansas City—Greenlease Motor Car Co plans 3-story building on Robert Gillham Rd About $175,000.

Mo., St. Louis—Claes & Lehnbeuter Manufacturing Co. made plans for factory at 7th St. and Russell Ave. About $50,000. Helfensteller, Hirsch & Watson, Arch.

Mo., St. Louis—Independent Packing Co. plans 5-story plant at 2815 Chouteau Ave. About $100,000.

Mo., Springfield—Springfield Creamery Co plans addition. About $35,000.

Ark., Magnolia—Columbia County Farmers Organized Warehouse Co. plans warehouse. J. T Souter, Pres.

Tex., San Antonio—Mission Ice and Fuel Co made plans for plant. About $55,000. M. J Dielman, 306 East Commerce St., Arch.

Tex., Texarkana—Texas Glass Co. plans improving plant. About $50,000.

Colo., Denver—Roberts Auto Co. plans 2-story brick factory. About $15,000.

Utah, Ogden—Ogden Wholesale Drug Co. made plans for 3-story, 42x134-ft. rein.-con. building About $45,000.

Utah, Salt Lake City—Galigher Machinery Co., 165 Pierpont St., plans plant at 5th, W. and 8th S. St.

Ore., North Portland—Oregon-Washington Railroad and Navigation Co. plans warehouse. S. Murray, Wells Fargo Bldg., Portland, Act. Ch. Engr.

Ore., Portland—Columbia Engineering Works making plans for shipbuilding plant.

Calif., San Francisco—Pacific Envelope Co. made plans for 4-story factory at 2d and Harrison St. About $100,000. W. Crim, Jr., 425 Kearny St., Arch.

Calif., San Francisco—A. G. Spaulding & Bros., 158 Geary St., plans 2-story factory on 9th St.

Que., Sherbrooke—Iron and Metal Supply Co., 400 Power Bldg., Montreal, plans factory at Sherbrooke. About $15,000.

Bids In and Contracts Awarded

Maine, Portland—Miles B. Mank Motor Car Co. let contract 2-story, 90x130-ft. garage and salesroom to N. E. REDLON CO., 80 Union St. Noted Mar. 30.

Mass., Boston—(Roxbury)—Drake Bros. Co., 85 Savin St., let contract 2-story, 47x97-ft. bakery to WHUTON & HAYNES CO., 200 Devonshire St.

Mass., Chelsea—Fleischer Bros., 59 Elm St., will build 2-story, 45x95-ft. addition by day labor. About $12,000. Noted Aug. 24.

Mass., Chelsea—Market Forge Co., 217 5th St., let contract 2-story factory to CLARK & LEE CO., 201 Devonshire St., Boston. About $25,000.

Mass., Great Barrington—E. F. Searles let contract 1-story, 55x78-ft. garage to D. H. SHAW, Great Barrington. About $30,000.

Mass., Malden—Malden Biscuit Co. let contract 2-story, 40x80-ft. brick factory to H. DOODELSACK, 103 4th St., Chelsea. About $16,000. Noted Sept. 7.

Mass., Salem—Cass & Daley Shoe Co., Goodhue St., let contract addition to PITMAN & BROWN CO., Washington St. About $15,000.

Mass., Watertown—Aetna Mills let contract 1-story, 102x112-ft. addition dye house to WILEY & FOSS, Fitchburg.

R. I., Providence—(Elmwood)—Gorham Manufacturing Co. let contract 2-story, 65x122-ft. factory to J. W. BISHOP CO., 109 Foster St.

Conn., Bridgeport—Charles Gregory, 236 Middle St., let contract 2-story machine and pattern shop to S. W. HUBBELL BUILDING CO., Bridgeport. About $11,000. Noted Aug. 31.

Conn., Hartford—E. A. Fuller Tobacco Co., 223 State St., let contract 4-story, 31x80-ft. warehouse to DEAN & BIDWELL, Glastonbury. About $10,000.

Conn., Naugatuck—United States Rubber Co. let contract factory to SPERRY ENGINEERING CO., New Haven.

Conn., Torrington—W. E. Miles let contract 2-story, 98x105-ft. garage to TORRINGTON BUILDING CO. About $25,000.

N. Y., Binghamton—Ballard Silk Co. let contract 2-story addition to J. L. LEWIS, 36 Wall St. About $25,000. Noted Aug. 24.

N. Y., Buffalo—Pomeroy & Stellrecht, 60 Indiana St., let contract 1-story machine shop to SCHAAF CO., Mutual Life Bldg. About $12,000

N. Y., New York—(Bronx)—Liberty Lace and Netting Works, Bronxwood Ave. and 229th St., let contract 1-story factory to JOHN THATCHER & SON, 60 Park Ave., Brooklyn. About $40,000 Noted Aug. 31.

N. Y., New York—(Manhattan)—(Official)—Hudson Motor Car Co. of New York, Inc., let contract 4-story, 203x239-ft. building between 68th and 69th St. and North River to TURNER CONSTRUCTION CO., 11 Broadway.

Industrial Works (Continued)

N. Y., Rochester—T. J. Northway, 100 Exchange St., let contract 3-story, 70x80-ft. garage to ALEXANDER, SHUMWAY & UTZ, 409 Exchange Pl. Bldg. About $20,000.

N. Y., Troy—Cluett, Peabody Co. let contract 8-story addition to plant to WESTINGHOUSE, CHURCH, KERR & CO., 37 Wall St., New York. About $1,500,000.

N. Y., Utica—Brennan & Devereux, 252 Genesee St., let contract warehouse to GRIFFITHS & PIERCE, 618 Charlotte St.

N. Y., Waverly—Tioga Mill and Elevator Co. let contract grain elevator to DEVERELL, SPENCER & CO., 1007 Garrett Bldg.

N. Y., Yonkers—A. Smith & Sons Carpet Co. will build 1-story, 62x198-ft. plant by day labor. About $30,000.

N. J., Allwood—(Passaic post office)—Brighton Mills, 257 4th Ave., New York, let contract 1-story, 150x500-ft. addition to J. W. FERGUSON CO., United Bank Bldg., Paterson. Noted Sept. 14.

N. J., Glassboro—Whitney Glass Works let contract 3 factory buildings to JAMES STEWARD CO., 30 Church St., New York. Noted June 22.

N. J., Jersey City—Lubricating Metal Co. let contract 1-story, 50x100-ft. factory to PURDY & HENDERSON, 45 East 17th St., New York. About $15,000. Noted July 27.

Penn., Chester—Scott Paper Co. let contract warehouse and addition to factory to CUMMINGS STRUCTURAL CONCRETE CO., Benedum Trees Bldg., Pittsburgh. Noted July 20.

Penn., Corry—United States Radiator Co. let contract for steel work for foundry to C. R. ROGERS & CO.

Penn., Johnstown—Armour & Co., Chicago, let contract 2-story packing plant to W. E. CAMPBELL, Johnston. About $10,000.

Penn., McKees Rocks—Pittsburgh & Lake Erie R.R. let contract 3-story storehouse to COOK & ANDERSON, Beaver. About $35,000.

Penn., New Brighton—Beaver Refrigerator Manufacturing Co. let contract 1-story factory to MARTSOLF BROS. CO., New Brighton. About $75,000. Noted June 1.

Penn., Philadelphia—H. Rohner let contract 4-story bakery at 209 North 5th St., to G. L. SIPPS, 912 Locust St. About $50,000.

Penn., Pittsburgh—United States Rubber Co. let contract warehouse on 7th St. to G. HOGG CO. Noted June 1.

Penn., Reading—Carpenter Steel Co. let contract additions to L. H. FOCHT & SON, Baer Bldg. About $150,000.

Penn., Reading—International Money Machine Co., Inc., let contract 3-story factory at 2037 Kutztown Rd. to W. S. BORSTOW & CO. About $60,000. Noted Aug. 3.

D. C., Washington—R. Mt. Raynolds & Sons, 1423 B St., let contract 2-story, 36x94-ft. warehouse to J. H. NOLMAN, Munsey Bldg. About $15,000.

Va., Danville—N. Klaf let contract 1-story, 50x152 abattoir to W. K. ANDERSON. About $12,000. Noted Aug. 17.

Va., Richmond—City let contract 3-story warehouse to J. T. WILSON CO., Mutual Bldg. About $60,000. Noted June 8.

W. Va., Wheeling—Elm Grove Press let contract factory on West Main St. to A. B. IMHOFF. About $12,000.

N. C., Mooresville—Mooresville Cotton Mills let contract for additions to plant to W. H. ROSE, Goldsboro, N. C. Noted Sept. 21.

Ala., Mobile—Pope Manufacturing Co. let contract 1-story brick factory to E. J. RAUB & CO. About $10,000.

Miss., Gloster—Foster Creek Lumber and Manufacturing Co., Madison, Wis., let contract plant to PRESCOTT CO., Menominee, Mich.

Ky., Louisville—State Bd. Prison Comrs. let contract chair factory to SCOTT & STAFFORD, Frankfort, $10,300.

Ohio, Akron—Mohawk Rubber Co. let contract 3-story factory at 1271 2d Ave. to W. FRANKLIN, 327 Cuyahoga St. About $30,000. Noted Sept. 21.

Ohio, Cincinnati—Globe Register Co., Reading Rd., let contract factory to FERRO CONCRETE CONSTRUCTION CO., Richmond and Harriet St. About $85,000.

Ohio, Cincinnati—F. J. Lawson Co. let contract 3-story, 193x218-ft. factory to M. J. ROCHE CONSTRUCTION CO., 610 Johnston Bldg. About $180,000. Noted July 20.

Ohio, Cleveland—Grant Lees Gear Co., 2367 East 69th St., let contract 3-story, 70x120-ft. addition to HUMKIN-CONKEY CONSTRUCTION CO., 321 Cuyahoga Bldg. About $40,000.

Ohio, Cleveland—St. Louis Butchers' Supply Co. let contract 3-story, 60x80-ft. factory to A. WINNEL, 1810 North Leffingwell Ave. About $20,000.

Ohio, Lorain—National Stove Co. let contract 2-story, 40x125-ft. warehouse to J. GLOCK. About $15,000. Noted Sept. 7.

Ohio, Newark—Hammel & Bader let contract 2-story, 70x200-ft. garage to C. T. MERCER, Zanesville. About $26,000.

Ohio, Oakley—(Cincinnati post office)—Cincinnati Milling Co. let contract addition to FISHER DE VORE CONSTRUCTION CO., Henry Bldg., Cincinnati. About $30,000. Noted Sept. 21.

Ohio, Sandusky—G. & C. Foundry Co. let contract 1-story, 100x400-ft. foundry to A. SCHNURR, Sandusky.

Ohio, Youngstown—Youngstown Iron and Steel Co. let contract structural steel for additions to FT. PITT BRIDGE AND IRON CO., Pittsburgh. Noted Sept. 21.

Ind., Crown Point—Letz Manufacturing Co. let contract factory, machine shop and office building to F. HOFFMAN, Crown Point. About $15,000.

Ind., Ft. Wayne—Standard Oil Co. let contract 3-story warehouse and office building to H. HILGEMAN. About $50,000. Noted June 22.

Ind., Indianapolis—Holcomb & Hoke Manufacturing Co. let contract machine shop and assembling building to BEDFORD STONE AND CONSTRUCTION CO., 810 Fletcher Trust Bldg. Noted Aug. 3.

Ind., South Bend—International Rubber Co., Farmers' Trust Bldg., let contract 1-story, 80x300-ft. factory and boiler room to HILTON HAMMOND. About $30,000. Noted July 27.

Mich., Detroit—Hollman Manufacturing Co., 21st St. and West Jefferson Ave., let contract 1-story factory on South Milford St. to SCHMIED SISMAN CO., 385 Beaufait Ave. About $30,000.

Mich., Detroit—Parker Rust Proof Co. of America let contract 1-story factory to COOPER-WINDENMANN CONSTRUCTION CO., 854 Penobscot Bldg. About $28,000.

Mich., Grand Rapids—Ionia Floor Board Co. let contract 1-story, 60x100-ft. addition to J. HERRMANN & SON, Grand Rapids. Noted Aug. 31.

Mich., Muskegon—Brunswicke-Balke-Collender Co. let contract factory at Laketon Ave. and Messler St. to BUCK & MULLEN. About $45,000. Noted May 11.

Mich., Port Huron—Grand Trunk Ry. let contract shops and other buildings to J. STEWART & CO., Westminister Bldg., Chicago. About $600,000. Noted Aug. 17.

Ill., Chicago—Chicago Hardware Foundry Co., 546 West Washington St., let contract addition to J. E. HALE.

Ill., Chicago—Chicago, West Pullman & Southern R.R. will build roundhouse and shop by company's forces. About $16,000.

Ill., Chicago—McNeill & Higgins Co. let contract 7-story, 97x300-ft. warehouse to H. ERICSSON & SONS, 139 North Clark St. About $300,000. Noted May 25.

Ill., Chicago—S. Paulsen, 7172 University Ave., let contract 1-story brick garage to A. T. HERLIN, 6117 Evans Ave. About $20,000.

Ill., Chicago—White Cold Storage Co. let contract masonry 6-story brick storage building to E. W. SPROUL CO., 1120 West 35th St. About $175,000.

Ill., Hartford—(East Alton post office)—International Shoe Co., 13th and Mullanphy St., St. Louis, Mo., let contract tannery to J. B. BLACK MASONRY AND CONSTRUCTION CO., Wright Bldg., St. Louis. About $300,000. Noted Sept. 21.

Wis., Appleton—International Power Co., Ft. Edwards, N. Y., let contract bisulphite plant to NORTHERN BOILER AND STRUCTURAL IRON CO.

Wis., Milwaukee—Milwaukee Electric Light and Railway Co. let contract car barn to A. W. RIESEN, University Bldg. About $100,000. Noted Aug. 24.

Wis., Niagara—Kumberly Clark Co., Neenah, let contract 3-story, 65x110-ft. warehouse to WORDEN, ALLEN CO., 9th and Farhum St. About $200,000.

Wis., Racine—Walker, Moore Manufacturing Co. let contract 1-story, 16x180x200-ft. factory to ARNOLD CO., 105 South La Salle St., Chicago.

Iowa, Webster City—Hanson & Tyler Auto Co. let contract 2-story 66x100-ft. garage to W. J. ZITTERELL, Webster City. About $20,000.

Minn., Angus—Farmers Elevator Co. let contract elevator to L. BUEGE, 224 Boston Blk., Minneapolis.

Minn., Minneapolis—American Flour and Cereal Mills Co. let contract 4-story, 40x108-ft. mill to J. LECK & CO., 316 South 7th St. About $75,000. Noted May 4.

Minn., St. Paul—N. R. Frost, 308 Newton Bldg., let contract 2-story brick addition to storage building to H. C. STRUCHEN, 404 Dakota Bldg. About $14,000.

Neb., Omaha—Frank Burkley, 417 South 12th St., let contract 1-story laundry to McGOWAN & JACOBBERGER, 600 Barker Blk. About $10,000.

N. D., Fargo—Fargo Motor Sales Co. let contract 4-story, 50x150-ft. garage to T. F. POWERS CO. About $40,000.

Tex., Sherman—Sherman Manufacturing Co. let contract 100x200-ft. warehouse to WOOD & ELLIOTT, Sherman.

Ore., Portland—Union Meat Co. let contract 6-story, 40x70-ft. rein.-con. slaughter house and storage building to F. LEONARD, Lewis Bldg. About $75,000. Noted Mar. 23.

Wash., Tacoma—Albers Bros. Milling Co. will build 2-story, 83x165-ft. brick warehouse and office building by day labor. About $15,000.

Ont., Toronto—W. Davies let contract packing plant to WELLS BROS. CO., 53 West Jackson Blvd., Chicago. About $500,000.

Man., St. Boniface—D. Balkovaske let contract concrete and brick abattoir and rendering plant to PROGRESS CONSTRUCTION CO., St. Boniface. About $75,000.

Man., Winnipeg—Grain Growers Co., Lombard. St., let contract rein.-con. and brick warehouse to SUTHERLAND CONSTRUCTION CO., 202 Carlton Bldg., $60,000.

FEDERAL GOVERNMENT WORK

Proposed Work

Mass., Boston—Extending Shipbuilding Ways and Appurtenances—Bureau of Yards and Docks, Navy Dept., Washington, receiving bids Oct. 21, Navy Yard, Boston.

R. I., Providence—Dredging—U. S. Engineer Office, Newport, receiving bids Oct. 23 for dredging Providence Harbor. (See adv.)

N. Y., New York—Crane—Bureau of Yards and Docks, Navy Dept., Washington, receiving bids Oct. 28 for one 20-ton locomotive crane, Navy Yard, New York.

N. Y., Tompkinsville—Heating System—Lighthouse Inspector, Tompkinsville, receiving bids Oct 1, north and south office building, General Lighthouse Depot.

N. J., Woodbury—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Oct. 31.

D. C., Washington—Retaining Wall—Office Pub. Bldgs. and Grounds receiving bids Oct. 3 at entrance on west side of Meridian Hill Park. (See adv.)

D. C., Washington—Streets—Dist. Comrs. receiving bids Oct. 10 for grading and improving streets, roads and avenues in Dist. O. P. Newman, Comr. (See adv.)

N. C., Burlington—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Oct. 30. Noted Sept. 7.

Ala., Birmingham—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Nov. 13. Noted May 25.

Ill., Rock Island—Dams and Shore Protections—U. S. Engineer Office, Post Office Building, receiving bids Oct. 18 for constructing and repairing dams and shore protections between Bellevue and Sabula, Iowa, between Beattys Crossing and Keithsburg, Ill., between Quincy, Ill., and Hannibal, Mo., and Hamburg, Ill., and between Hamburg and Gafton, Ill. (See adv.)

Calif., Vallejo—Crane—Bureau of Yards and Docks, Navy Dept., Washington, receiving bids Nov. 11 for 250-ton floating revolving crane for Mare Island Navy Yard. Noted Sept. 7.

Calif., Yosemite—Hydro-Electric Machinery and Equipment for Yosemite National Park—W. B. Lewis, Superv. Yosemite National Park, Yosemite, receiving bids Oct. 12. (See adv.)

T. H., Pearl Harbor—Crane—Bureau of Yards and Docks, Navy Dept., Washington, receiving bids Nov. 11 for locomotive crane of 50 tons jib capacity, Naval Station, Pearl Harbor.

Bids In and Contracts Awarded

N. Y., New York—(Brooklyn)—Post Office—Government rejected bids for alterations. Noted Sept. 21.

D. C., Washington—Sewers—Dist. Comrs. let contract to W. F. BRENIZER CO., 141 A St., about $12,000. Noted Sept. 21.

Va., Norfolk—Structural Shop—Bureau of Yards and Docks, Navy Dept., rejected bids. Noted Sept. 14.

Va., Warrenton—Post Office—Low bidders (a) limestone, (b) sandstone, were: R. V. Richardson, Hampton, (a) $43,270, (b) $43,570; J. L. Robinson Construction Co., Baltimore, (a) $44,225, (b) $44,720; Leeds Construction Co., Nyack, (a) $46,800, (b) $47,500. Noted July 27.

Fla., Jacksonville—Dredging—U. S. Engineer Office let contract dredging and rock removal at Miami Harbor to BOWERS SOUTHERN DREDGING CO., Galveston. Noted Sept. 21.

Fla., Orlando—Post Office—Government let contract to WESTCHESTER ENGINEERING CO., White Plains, $45,400. Noted Sept. 21.

Miss., Vicksburg—Stone—U. S. Engineer Office let contract about 25,000 short tons to FOSTER & CREIGHTON CO., Nashville, Tenn., $12,750, and U. S. STONE CO., Little Rock, Ark., $19,500.

Tenn., Memphis—Cement—Mississippi River Comn. let contracts to J. A. DENIS & SONS CO., Memphis, 10,000 sacks, 36.5c.; UNION SAND AND MATERIAL CO., Memphis, 15,000 sacks at Caruthersville, Mo., 38.75c. or 41.5c., 15,000 sacks at Barfield, Ark., 45.5c. or 41.5c., 10,000 sacks at Osceola, Ark., 40.75c. or 41.5c. Noted Aug. 31.

Mich., Port Huron—Post Office—Government rejected bids.

Ill., Chicago—Pier Construction, Dredging, Etc.—U. S. Engineer Office let contract to FITZSIMONS & CONNELL DREDGE AND DOCK CO., Chicago, $26,335. Noted Aug. 24.

Ill., Great Lakes—Filter Plant—Navy Dept. let contract to INTERNATIONAL FILTER CO., 38 South Dearborn St., Chicago, about $5,425. Noted Sept. 7.

Ore., Klamath—Bridge Spans—Comr. Indian Affairs let contract to OMAHA STRUCTURAL STEEL WORKS, Omaha, $69,800. Noted July 20.

Federal Government Work (Continued)

Calif., San Francisco—Water Supply System—War Dept. let contract water pipe line from Oakland long wharf to Goat Island to CROWLEY LAUNCH AND TUGBOAT CO., about $28,000.

Hawaii, Honolulu—Wharf—Government let contract wharf, buildings, etc., at Quarantine Sta. to LORD-YOUNG ENGINEERING CO., Honolulu, about $29,647. Noted Mar. 23.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., Albany—Barge Canal Work—(Official)—W. W. Wotherspoon, State Supt. Pub. Wks., Capitol, receiving bids Oct. 11 for Barge Canal work, Contract No. 2, Olean flood abatement work (See adv.)

N. Y., New York—(Brooklyn)—Dredging—(Official)—R. A. C. Smith, Comr. Docks, Pier A, North River, receiving bids Oct. 2, head of mill basin, Jamaica Bay. Contract No. 1462.

Fla., Tallahassee—(Official)—Canal—Bd. Comrs. Everglades Drainage Dist. receiving bids Oct. 31 for drainage canal. F. C. Elliot, Ch. Drainage Engr. (See adv.) Noted May 4.

Ohio, Lancaster—Dredging—Comrs. Fairfield and Perry Counties receiving bids Oct. 26, Rush Creek. Noted Aug. 24.

Ill., Paxton—Ditch—Ford County receiving bids Oct. 19 for deepening, enlarging and cleaning out ditch. A. H. Chandler, Comr.

Minn., Benson—Ditch—Swift County receiving bids Oct. 3 for County Ditch No. 16. About $5,988. Noted Dec. 16.

Minn., Roseau—Ditch—Roseau County receiving bids Oct. 13 for Judicial Ditch No. 63. About $56,230. S. G. Bertilrud, Roseau, County Audr.

Minn., St. James—Ditch—Watonwan County receiving bids Oct. 6 for Judicial Ditches Nos. 14 and 15. J. E. Jensen, St. James, County Audr.

Neb., Hartington—Ditch—Cedar County receiving bids Oct. 3 for Brookey Bottom Ditch. H. J. Beaty, County Clk.

Neb., Humboldt—Drainage—Drainage Dist. No. 4 receiving bids Oct. 10 for 7 mi. new channel for South Fork Nemaha River. F. Snethen, Clk. Bd.

Ark., Marion—Drainage—Dist. No. 3 receiving bids about Oct. 16 for drainage system. About $230,000. Ferree & McCleskey, Memphis, Tenn., Engr. Noted Mar. 16.

Tex., Harlingen—Irrigation—Bd. Dir. Cameron County Irrigation Dist. No. 1 receiving bids Oct. 9 for canals and locks. Noted Jan. 27.

Colo., La Jara—Drainage—Comrs. La Jara Drainage Dist. making surveys for drains. G. W. Inman, interested.

Ore., Vale—(Official)—Dam—Warm Springs Irrigation Dist. receives bids Oct. 2 for purchase of $390,000 bonds for dam and improving distribution system. J. Rigby, Vale, Engr. Noted Sept. 14.

Calif., Long Beach—Drainage—Signal Hill Drainage Dist. lets contract about Oct. 15 for drainage system. About $96,000. R. V. Pearsall, 329 First National Bank Bldg., Engr. Noted Feb. 24.

Calif., Los Angeles—Drainage—Dominguez Estate Co., 807 Title Insurance Bldg., receiving bids Oct. 3 for drainage and storm water canal for conveying surface water from Nigger Slough to point near Watson Station on Pacific Electric Ry., Los Angeles-San Pedro Line.

Bids In and Contracts Awarded

N. Y., Albany—Barge Canal Work—Contract, Terminal Contract No. 31, dock wall and approach at Lyons, let to LUPFER & REMICK CO., Buffalo, $51,600. Noted Sept. 14.

Penn., Philadelphia—Dredging—Dir. Dept. Wharves, Docks and Ferries, Bourse Bldg., let contracts to AMERICAN DREDGING CO., Mariners and Merchants Bldg., Schedule A; W. A. MUNDY, 230 South Alder St., Schedule B; C. J. H. TERRY, Drezel Bldg., Schedule C.

Mich., Coldwater—Drainage—Branch County let contract drain to G. S. BRAMAN, Quincy, Ill.

Iowa, Ft. Dodge—Drainage—Webster County let contract constructing Drain 230 to P. CHRISTIANSON, Boone, $4,596, tile for Drain No. 230 to LEHIGH CLAY PRODUCTS CO. Ft. Dodge, $7,989.

Iowa, Ft. Dodge—(Official)—Drainage—County let contracts Drain No. 238 to PLYMOUTH CLAY PRODUCTS CO., Ft. Dodge, $8,335, for tile and P. JENSEN, Scranton, $6,252 for labor. Noted Sept. 7.

Iowa, Nevada—Drainage—Contract Boone-Story Counties Joint Drain No. 7 let to O. C. KALSIG CO., Elsworth, $18,365. Noted June 15.

Minn., Elbow Lake—Ditch—Grant County let contract Ditch No. 22 to KING & EICKMILLER. Noted Sept. 14.

Minn., New Ulm—Ditch—Contract let to GAYLORD CONSTRUCTION CO., Gaylord, $6,676.

Minn., Shakopee—Ditch—Contract Ditch No. 6 let to V. E. McDONALD, Meridian, $10,609. Noted Aug. 24.

Minn., Slayton—Ditches—Murray County let contracts to C. APELSON, Clear Lake, $33,900, for Judicial Ditch No. 15 and to HUMES & FORD, Slayton, $8,000, for Judicial Ditch No. 16.

Minn., Windom—Ditches—Cottonwood County let contract, ditches to J. KOBELEGARD, Westbrook, $8,257, Ditch No. 25; JORGENSON & NELSON, Ringsted, Iowa, $9,470, Ditch No. 29; MICHELS & SANDELIN, Bungham Lake, $20,050, Ditch No. 30; J. B. CAMDEN, Westbrook, $17,870, Ditch No. 31; RUDL & WOLD, Windom, $24,000, Ditch No. 54.

N. D., Hillsboro—Drainage—Contract Rust Drain No. 24 let to J. LERMON, Buxton.

N. M., Las Vegas—Irrigation—San Miguel County let contract irrigation project to R. C. STORRIE CO., San Francisco. About $500,000.

Utah, Richfield—Drainage—County Drainage Dist. No. 1 let contract drainage system to GREEN ENGINEERING AND CONSTRUCTION CO., Salt Lake City, $67,978. Noted Aug. 17.

MISCELLANEOUS

Proposed Work

Mass., Gardner—Fire Station—City making plans. G. S. Hodgman, Fire Ch.

Mass., Pittsfield—Wading Pool—City plans, 60x100-ft. A. B. Farnham, City Engr.

Mass., Revere—Fire Station—City making plans, 2-story, 40x52-ft. About $15,000. MacNaughton & Robinson, 101 Tremont St., Boston, Arch.

N. Y., Kings Park—(Official)—Refrigerating Machine—State Hospital Comn., Capitol, Albany, receiving bids Oct. 5, Kings Park State Hospital. E. S. Elwood, Secy. State Hospital Comn. (See adv.)

Penn., Philadelphia—Playground Improvements—City making plans, 6th and Christian St. W. B. Champlin, Secy. Bd. Recreation, 587 City Hall. Noted Mar. 16.

Penn., Sturgeon—Retaining Wall—Bd. Comrs. South Fayette Township receiving bids Sept. 30, rein.-con., along portion of yard in South Fayette Township known as Coulters Bottom Rd. McCully Engineering Co., 709 Berger Bldg., Pittsburgh, Engr.

Penn., Trevorton—(Official)—Fire Engine House Trevorton Fire Co. receiving bids Feb. 1. About $10,000. F. R. Schweitzer, Shamokin, Arch. Noted Aug. 24.

Miss., Biloxi—Breakwater and Seawall—Council plans $30,000 bond issue. Noted Oct. 28.

Ohio, Cleveland—Comfort Station—City receiving bids Oct. 6, West 14th and Abbey St. R. Hoffman, City Engr. Noted Aug. 17.

Ohio, Cleveland—Comfort Station—City receiving bids Oct. 6, Euclid Ave. and 55th St. R. Hoffman, City Engr. Noted Sept. 21.

Ohio, Cleveland—Comfort Station—City making plans, East 9th St. and Superior Ave. About $10,000. T. L. Sidle, Dir. Pub. Ser. R. Hoffman, City Engr. Noted Nov. 18.

Ohio, Marion—River Improvements—Marion County making plans to improve Scioto River. W. Weston, Courthouse, Engr.

Mich., Detroit—Colosseum—State Fair Management plans. About $100,000.

Wis., Milwaukee—Dock—Dept. Pub. Wks. receiving bids Oct. 2. F. G. Simmons, Comr. Pub. Wks.

Neb., Norfolk—Swimming Pool and Dance Pavilion—H. H. King plans. About $5,000.

Tex., Hamlin—(Official)—Dam—City receiving bids Oct. 6 for rein.-con. dam across California Creek. About $50,000. H. C. Hart, Jr., City Engr.

Ore., Portland—Elimination Grade Crossing—City receiving bids Dec. 6 for eliminating grade crossings on Oregon-Washington R.R. and Navigation Co. A. L. Barbur, Audr. (See adv.) Noted June 22.

Calif., Long Beach—Pier—City votes Oct. 11 on $300,000 bonds, Pine and American Ave. A. de Ring, City Engr. Noted Aug. 10.

Bids In and Contracts Awarded

Mass., Arlington—Excavation and Culvert—Metropolitan Park Comn., Boston, received bids from J. H. Fannon, 27 Hinckley St., Somerville, $12,950; F. E. Ellis, Melrose, $13,600; Coleman Bros., Chelsea, $16,200.

R. I., Providence—Coal Pocket—Darrow-Mann Co. let contract to NEW ENGLAND STRUCTURAL IRON CO. Noted June 22.

N. Y., New York—(Brooklyn)—Track Installation—Contract installing tracks on portion Culver Rapid Transit R.R. let to KAUFMAN & GARCEY, 51 Chambers St., Manhattan, $103,680. Noted Sept. 21.

N. Y., New York—(Manhattan)—(Official)—Frogs and Switches—Contract 4 portion special work for rapid transit railroads, Pelham Line Subway, Order No. 10, let to RAMAPO IRON WORKS, 30 Church St., $11,427. Noted Sept. 14.

N. J., Atlantic City—Bulkhead—City let contract, Inlet Park, to J. W. INGERSOLL, 1422 Pacific Ave., $27,186. Noted Aug. 24.

N. J., Westfield—(Official)—Park Improvements—Bd. Park Comrs. let contract to G. W. LAWRENCE CO., 20 Clinton St., Newark. Noted Sept. 21.

Penn., Baden—Subway—Pennsylvania R.R. let contract to ADAM LAIDLAW CO., Bessemer Bldg., Pittsburgh.

Md., Baltimore—Market House—City let contract improving Richmond Market to J. L. ROBINSON CONSTRUCTION CO. About $40,000. Noted Aug. 17.

Ohio, Dayton—Dam—Dir. Pub. Ser. let contract Island Park Dam to PRICE BROS. CO., Jordan, Mich., $29,840. Noted Sept. 21.

Ill., Oak Park—Fire Station—City let contract 2-story, 30x50-ft., to A. TAROW, 125 North Oak Park Ave., Oak Park. About $15,000. Noted Aug. 24.

Iowa, Onawa—(Official)—Straightening River—Monona County let contract, Soldier River, to S. O. BRIGGS & CO., Omaha, Neb., $68,000. Noted Sept. 14.

Minn., Jordan—Bathhouse and Laundry—Mt. Baden Sulphur Springs Co. let contract to S. M. KLARQUIST & SON, 247 Security Bank Bldg., Minneapolis. About $20,000.

Minn., St. Paul—Engine House—Ramsey County let contract addition to J. J. JWANSOUSKOS BUILDING CO., 1091 Colne St. About $6,000.

Neb., Omaha—Bathhouse—Jewish Bathhouse Association let contract, 1-story, 25x54-ft., to C. S. NELSON, 4543 Nicholas St. About $6,000.

S. D., Redfield—(Official)—Tunnel Work—State Bd. of Charities let contract for foundation and tunnel work for building for Home for Feeble-minded to H. F. STOLTE, Redfield. Noted Sept. 7.

Mo., St. Louis—Ice Skating Rink—Winter Garden and Ice Co. let contract ice skating rink, factory and warehouse to E. A. STEININGER CONSTRUCTION CO., 407 North 8th St. About $150,000. Noted Sept. 7.

B. C., Vancouver—Filling—Contract filling in and dredging connection with Coal Harbor Causeway scheme let to DOMINION CONSTRUCTION CO., Vancouver, $16,962.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works," "Federal Government Work" and "Miscellaneous."

Maine, Milo—Dormitory—American Thread Co. making plans. Brainerd & Leeds, 89 Franklin St., Boston, Arch.

Maine, Phippsburg—Hotel—C. D. Wamwright, 36 Bromfield St., Boston, making plans. H. Kiesling, 7 Water St., Boston, Arch.

Maine, York Harbor—Hotel—F. D. Marshall, 120 Exchange Pl., Portland, making plans, 4-story, 40x500-ft. addition. About $120,000. J. C. & J. H. Stevens, 187 Middle St., Portland, Arch. Noted May 25.

Mass., Adams—Parochial School—Sisters of Notre Dame making plans, 3-story, 72x72-ft. addition. O. E. Nault, 8 Wall St., Worcester, Arch.

Mass., Fall River—Church—St. Michael's Church making plans, 2-story, 58x78x165-ft. About $75,000. H. Fallows, 131 Stewart St., Arch.

Mass., Lynn—Home—St. Mary's Parish making plans for home for women. About $60,000. H. W. Rogers, 25 Exchange St., Arch.

Mass., Westboro—High School—City made plans, 2-story. About $50,000. Fuller & Delano, Worsecter, Arch. Noted Feb. 17.

Conn., Bristol—School—City soon lets contract, 2-story, 35x129-ft. addition. W. Potter, 1 Union sq., New York, Arch. Noted Aug. 24.

Conn., New Haven—Store and Office—Rudolph Steinert made plans, 5-story, 50x90-ft., brick, stone and steel, Elm and Church St.

Conn., New London—Hotel—F. A. Munsey, New York, making plans, 12-story, 42x109-ft. addition to Mohican Hotel, State St. About $150,000.

Conn., Stratford—School—City plans, Honey Spot Rd. About $50,000.

N. Y., Cooperstown—Vocational School—Fennimore Cooper Foundation, care of W. T. Hyde, 25 Broad St., New York, plans. About $250,000.

N. Y., New York—(Manhattan)—Office—H. Freece, 35 Wall St., receiving bids, 13-story, 125x505-ft. brick, at 26 Union Sq. and 15th St. About $300,000. W. G. Pigueron, 59 Pearl St., Arch.

N. Y., New York—(Manhattan)—Loft—Duane Street Corporation, 76 Duane St., receiving bids, 12-story, 50x80-ft. brick and terra cotta, 76 Duane St. About $180,000. E. B. Litchfield, 477 5th Ave., Arch.

N. Y., New York—(Manhattan)—C. B. J. Snyder, Supt. School Bldgs., Dept. Education, Park Ave. and 59th St., receiving bids Oct. 2 for Manhattan Trade School for Girls, Lexington Ave. and 22nd St.

N. Y., Niagara Falls—Grade and High School—Bd. Education plans grade school at Pine Ave. and 27th St., about $50,000, and high school about $125,000.

N. Y., Rochester—(Official)—High School—Bd. Education receiving bids about Nov. 1, 3-story, 226x220-ft. About $450,000. Gordon & Madden and W. G. Kaelber, 300 Sibley Bldg., Arch. Noted Sept. 21.

Buildings (Continued)

N. Y., Thiells—(Official)—F. A. Vanderlip, Pres. Bd. Mgrs., Letchworth Village, 7 Wall St., New York, receiving bids Oct. 19 for Cottages E, F, G and H and store house, bakery, refrigerating plant and cold-storage building. Lewis F. Pilcher, Capitol, Albany, State Arch. (See adv.)

N. Y., Troy—Russell Sage College making plans for 4-story college. P. Cook, Pres. Bd. Trust.

N. Y., Williamsville—High School—Bd. Education plans, Academy and Eagle St. W. H. Baker, Chn.

N. J., Clifton—School—Bd. Education rejected bids received Sept. 12 for addition to School No. 7. About $65,000. New bids. W. T. Fanning, Colt Bldg., Paterson, Arch. Noted Aug. 24.

N. J., Elizabeth—Office—New York Telephone Co. making plans, East Grand St. Noted July 20.

N. J., Jersey City—Bd. Education plans addition to School No. 5 on Merseles St., building School No. 14 on Duncan Ave., and addition to Teachers' Training School.

N. J., Paterson—(Official)—School—Bd. Education receiving bids about Nov. 21 for School No. 6. About $300,000. H. Barrett Crosby, First National Bank Bldg., Paterson, Arch. Noted Sept. 21.

Penn., Bethlehem—Church and Rectory—St. John's Maygan Church making plans, 1-story, 68x161-ft. About $70,000. A. W. Leh, Post Office Bldg., Arch.

Penn., Chester—(Official)—City Hall and Jail—City receiving bids about Jan. 1, 3-story. About $65,000. C. W. Brazier, 1133 Broadway, New York, Arch. Noted Sept. 21.

Penn., Greenville—(Official)—High School—Bd. Education receiving bids about Jan. 1 About $165,000. C. C. and A. L. Thayer, New Castle, Arch. Noted Sept. 21.

Penn., Lemoyne—High School—School Bd. of East Pennsboro, Lemoyne, Camp Hill, Wormleys-Borough and Lower Allen Township plans.

Penn., Lewistown—Y. M. C. A. retained J. B. Hamme, York, to make plans for building. About $85,000. Noted Mar. 23.

Penn., Pittsburgh — School — Bd. Education made plans for West End Sheraden High School. About $250,000. Noted July 20.

Penn., Pittsburgh—Bank—Union Trust Co. making plans, 4-story, 120x140-ft. About $1,000,000. E. P. Mellon, Trowbridge & Livingston, 57 Vandergrift Pl., New York, Arch.

Penn., Pittsburgh—Carnegie Institute of Technology soon lets contract for addition to School of Applied Science. About $300,000. E. Stotz, Monon Bank Bldg., Arch. Noted Aug. 24.

Penn., Reading—Club House—Wyomissing Club making plans, 2-story. 57x165-ft. About $75,000. Duhring, Okie & Ziegler, Bailey Bldg., Philadelphia, Arch. Noted July 27.

Penn., Rochester—Hospital—Rochester General Hospital plans 3-story addition. About $50,000. F. I. Merrick, Empire Bldg., Pittsburgh, Arch.

Penn., Sayre—Church—Church of Epiphany making plans, 1-story, 58x125-ft. About $50,000. J. J. Howley, Traders Bank Bldg., Scranton. Arch.

Md., Baltimore—(Official)—Store, Theater and Garage—Majestic Theater receiving bids about Nov. 15, 3-story, 75x300-ft. About $80,000. Blanke & Zink, 647 Equitable Bldg., Arch. Noted Sept. 14.

Va., Hanover—Jail—Hanover County receiving bids Oct. 1. Lambert & Hartsook, Travelers Bldg., Richmond, Arch. Noted Apr. 20.

Va., Norfolk—Home—Union Mission plans. About $100,000. H. H. Kratzig, 51 Church St., Supt.

W. Va., Morgantown—State Bd. Control lets contract in November for building at West Virginia University. About $300,000. P. A. Davis, 1713 Sansom St., Philadelphia, Arch. Noted July 6.

Ga., Atlanta—Flyn Estate made plans for 5-story building. About $500,000. Gude & Co., Arch.

Ala., Montgomery — City Hall—City votes Oct. 17 on $250 000 bonds.

Ky., Franklin—Hotel—Franklin Hotel Co. making plans. About $50,000. J. H. Crocker, Pres. Noted Aug. 24.

Ky., Newport—High School—City votes Nov. 7 on $150,000 bonds.

Ohio, Akron—Infirmary Building—County plans, 2-story. About $52,000. E. W. Paul, Courthouse, County Engr.

Ohio, Cleveland — School—Bd. Education making plans for Gladstone School. About $250,000. F. G. Hogen, Dir. of Schools. W. R. McCormack and F. S. Barnum, Assoc. Arch.

Ohio, Columbus—Plans being made for Central Y. M. C. A. building; also colored branch. About $600,000.

Ohio, Lima—Church—Presbyterians plan.

Ohio, Sandusky—Hotel—Cedar Point Amusement Co. soon receives bids, 3-story, 36x260-ft. About $75,000. W. W. Hodges Co., Schofield Bldg., Cleveland Arch.

Ohio, Springfield—Comrs. Clark County receives bids Oct. 13 for buildings at County Children's Home. J. M. Pierce, County Audr.

Ohio, Warrensville — (Official) — School — Bd. Eductaion receiving bids Oct. 11. About $43,000. G W. Shurmer, Clk. Noted Sept. 7.

Ohio, Youngstown—Hotel—W. C. Owen & Co., Arch., making plans, 13-story, 75x95-ft. Noted July 6.

Ind., Auburn—School—Bd. Education receiving bids Oct. 5, 2-story addition. About $75,000. A. H. Ellwood & Son, Elkhart, Arch. Noted July 20.

Ind., Hope—Hospital—City plans. C. A. Weatherhogg, Arch.

Ind., Sullivan—Hospital—Sullivan County Hospital receiving bids Oct. 28. E. T. Jamison. Pres. Bd. Trustees. Noted Sept. 21.

Mich., Ann Arbor—(Official)—Michigan University receives bids in spring for 2-story, 50x90-ft. building. About $45,000. L. Schmidt, 126 North Market St., Wichita, Kan., Arch. Noted Sept. 7.

Mich., Detroit—Detroit United Railway Co. plans freight terminal at Monroe Ave., Chene, Dequindre and Macomb St. About $1,000,000. F. W. Brooks, Detroit, Gen. Mgr.

Mich., Grand Rapids—Office—Rathbone Estate making plans. About $75,000. Robinson & Campau, Houseman Bldg., Arch.

Ill., Alton—Temple—Masonic Temple Association making plans. J. M. Maupin, 518 Commercial Bldg., Arch.

Ill., Chicago—Parochial High School—St. Mel's Church making plans, 4-story, 100x150-ft. W. Gubbins, 155 North Clark St., Arch.

Ill., Chicago—Hotel—M. Kasper made plans 7-story on Surf Ave. About $200,000. Dibelka, Flaks & Minchin, Arch.

Ill., Chicago—Theater, Store and Office—S. Katz and Barney & A. J. Balban, 5 South Wabash Ave., making plans, 3-story, 100x176-ft. About $275,000. C. W. & G. L. Rapp, 69 West Washington St., Arch.

Ill., Homewood—Club House—Ravisloe County Club making plans, 1- and 2-story. About $70,000. G. C. Nimmons, 122 South Michigan Ave., Chicago, Arch.

Ill., Mounds—High and Grade School—Bd. Education making plans, 2-story, 64x115-ft. and 35x56-ft. About $40,000. W. H. Day, 527 Main St., Peoria, Arch.

Ill., Ottawa—Hospital—City making plans Ryburn Hospital and soon votes on $40,000 bonds for same.

Ill., Springfield—School—Bd. Education making plans for Douglas School. Helmie & Helmie, Arch.

Ill., Wheeling—Hotel—Henry Hartmann, Hotel Wheeling, making plans, 2-story, 57x89-ft. About $60,000. Parkinson & Dockendorff, La Crosse, Arch. Noted May 25.

Wis., Appleton—Dormitory—Lawrence College soon receives bids, 3-story, 80x150-ft. brick and stone, Russell Sage Girls' Dormitory. About $100,000. Childs & Smith, 122 South Michigan Ave., Chicago, Arch. Noted Aug. 17.

Wis., Beloit—School—Dist. No. 2 receiving bids Oct. 9, 2-story, 67x139-ft. M. R. Rosman, 878 44th St., Arch. G. E. Thompson, Clk. Noted Aug. 24.

Wis., Eau Claire—Hotel—H. L. Stevens, Arch., 910 South Michigan Ave., Chicago, making plans for stock company. About $350,000. Harvey Crane, promoter.

Wis., Ladysmith—Hospital—Mantellate Sisters' Hospital making plans, 3-story, 48x128-ft. About $75,000. H. F. Liebert, Marathon County Bank Bldg., Wausau, Arch.

Wis., Milwaukee—Bank and Office—F. E. Gray, Arch., Patton Bldg., making plans, 2-story, 38x60. About $50,000.

Wis., Oshkosh — School — Oshkosh Normal School soon receives bids, 3-story. Van Ryn & De Gellke, Milwaukee, Arch. Noted Sept. 7.

Wis., Racine—Bank and Office—Manufacturers' National Bank, Main and 5th St., making plans, 5-story, 60x120-ft. rein.-con. A. A. Guilbert, Robinson Bldg., Arch.

Wis., Stevens Point—Hotel—N. Jacobs, Sr., Estate plans, 5-story. About $150,000. Miss Tena Jacobs and Mrs. Oliver Olson, Prop.

Wis., Taycheedah—State Bd. Control, Capitol Bldg., Madison, soon receives bids for first 2 units of women's criminal institute. About $100,000. A D. Conover, 36 Tenney Bldg., Madison, Arch.

Wis., Waukesha—Office—Waukesha Motor Co. making plans, 2-story, brick. H. C. Hengels, 1225 First Nationl Bank Bldg., Milwaukee, Arch.

Iowa, Carroll—High School—Bd. Education making plans, 3-story, 83x140-ft. C. A. Dieman, Grenby Bldg., Cedar Rapids, Arch. Noted June 29.

Iowa, Cedar Rapids—Nurses Home—St. Lukes Hospital making plans, 3-story, 35x150-ft. W. J. Brown, 604 American Trust Bldg., Arch.

Iowa, Cedar Rapids—Church—First Baptist Congregation soon receives bids, 2-story, 80x85-ft., brick and terra cotta. About $50,000. Noted Aug. 19.

Iowa, Davenport—Theater—C. H. Bryant, Waterloo, and St. Elmo Bateman, Sioux City, plan. About $75,000.

Iowa, Des Moines—Iowa State Fair Association plans 6 buildings at fair grounds. About $250,000.

Iowa, Dubuque—Hospital—City election Nov. 7 to vote on $75,000 bonds. Noted Sept. 7.

Iowa, Mason City—School—Bd. Education receiving bids Oct. 2 (extension of date), 2-story. 138x210-ft., brick and rein.-con. About $250,000. T. H. Felt & Co., 800 Grand Ave. Temple, Kansas City, Mo., Arch. Noted Aug. 24.

Iowa, Muscatine — High School — Bd. Education of Independent School Dist. receiving bids Sept. 30 for addition. Eckland, Fugard & Knapp, McKinnie Bldg., Moline, Ill., Arch. Noted Sept. 7.

Iowa, Rolfe—School—Bd. Education receiving bids Oct. 24, 2-story, 63x153-ft. About $70,000. G. L. Lockhart, 285 Endicott Bldg., St. Paul, Arch.

Iowa, Vinton—High School—Bd. Education receiving bids Oct. 2, 2-story, 140x148-ft. About $100,000. Miller, Fullenwider & Dowling, 6 North Michigan Ave., Chicago, Arch. Noted June 1.

Iowa, Waterloo—(Official)—High School—Bd. Education receiving bids Oct. 18, 2-story. About $350,000. Mortimer B. Cleveland, Waterloo, Arch. Noted June 15.

Minn., Minneapolis—Armory—City plans. About $350,000.

Minn., Minneapolis—Temple—Zurah Temple, A. A. O. N. M. S., making plans, 100x200-ft. About $150,000. Bertrand & Chamberlain, 616 Bank of Commerce Bldg., Arch. Noted June 29.

Minn., Northfield—Dormitory—Carlton College receiving bids in spring. About $150,000. Holmes & Flinn, 8 South Dearborn St., Chicago, Arch. Noted Aug. 24.

Minn., Thief River Falls—Sanitarium—Pennington, Marshall and Roseau Counties soon receives bids. T. P. Anderson, Thief River Falls, County Audr. Pennington County.

Minn., Winona—Hospital—Winona General Hospital Association made plans, 3-story addition. About $60,000. Noted Aug. 10.

Kan., Abilene—High School—City votes Oct. 4 on proposition. About $90,000. Preliminary plans being made. W. H. Sayler, 606 Gumbel Bldg., Kansas City. Mo., Arch. Noted July 13.

Kan., Ottawa—High School—Bd. Education receiving bids Oct. 11. About $100,000. W. H Chaffee, Clk., Bd. Education. G. P. Washburn & Son, Arch. Noted July 20.

Kan., Paola—School—Bd. Education votes Nov. 7 on $60,000 bonds.

Neb., Gering—Hotel—American Hotel Co. plans, 2-story, 80x120-ft. About $40,000.

Neb., Hastings — School — Bd. Education soon votes on $200,000 bonds.

Neb., Omaha—(Official)—H. A. Wolf receiving bids about Jan. 1 for 10-story. About $400,000. J. McDonald, Omaha National Bank Bldg., Arch. Noted Sept. 7.

S. D., Pierre—Courthouse—Hand County soon votes on $100,000 bonds.

S. D., Webster—High School—Bd. Education rejected bids received July 25. New bids will be received about Jan. 1. About $65,000. Holmes & Flinn, 8 South Dearborn St., Chicago, Arch. Noted July 6.

N. D., Dunn Center—Hospital—Dunn County Hospital Association plans. About $50,000.

Wyo., Kemmerer—Courthouse—Lincoln County votes in November on $50,000 bonds.

Mont., Butte—School—School Trustees soon receives bids, Elizabeth and Warren Ave. About $75,000. J. W. Smith, Arch. Noted Apr. 20.

Mont., Butte—Hospital—Silverbow County made plans, 1-story, 30x60-ft.

Mo., Carthage — Temple — Carthage Masonic Lodge plans, 3-story. About $60,000.

Mo., Joplin—Bank and Office—J. Ferguson making plans, 3-story, 75x100-ft. About $150,000. E. P. Madorie, 832 Reserve Bank Bldg., Kansas City, Arch.

Mo., St. Joseph — (Official) — Church — First Christian Congregation receives bids about Oct. 1, 10th and Farson St. About $75,000. W. Boschen, Arch. Noted Sept. 14.

Mo., Springfield—School—Bd. Education soon receives bids, 2-story 71x76-ft. About $40,000. O. L. Brettner, Holland Bldg., Arch.

Ark., Hot Springs—Sanitarium—J. Hunt, Arch., New York, making plans. About $12,000,000. R. Onffory, Chicago, interested. Noted Jan. 13.

Tex., Corsicana—Club House—Fish Tank No. 2, Fishing and Hunting Club making plans.

Tex., Galveston—Hotel—A. J. Bellis, 1403 23d St., made plans, 10-story, Tremont and Market St. About $168,000. C. H. Moore, 2722 H St., interested.

Tex., Waco—Sanitarium—Central Texas Baptist Sanitarium made plans. About $100,000. J. F. Rowe, Secy. Noted Sept. 7.

Okla., Ardmore—Hospital—Walter Hardy making plans for addition. About $50,000. J. B. White, Arch. Noted July 20.

Okla., Stillwater—Courthouse—Payne County votes Nov. 4 on $100,000 bonds.

Idaho, Filler—School—County Comrs. soon vote on bonds.

Idaho, Pocatello—Auditorium—City made plans. Boyer & Rogers, Arch.

Buildings (Continued)

Ariz., Flagstaff—Hotel—Flagstaff Hotel Co., making plans. About $200,000. Trost & Trost, El Paso, Tex., Arch. Noted July 20.

Ariz., Miami—Miami Copper Co. receives bids Oct. 1 for Y. M. C. A. building. About $75,000. H. O. Jaastad, Tucson, Arch. Noted Apr. 20.

Wash., Aberdeen—Armory—City plans. About $75,000.

Calif., Modesto—High School—City votes Oct. 18 on $135,000 bonds. Noted Aug. 10.

Calif., Sacramento—Carnegie Library — City Com. receiving bids Oct. 5. About $130,000. T. Coulter, Comr. Pub. Wks. L. P. Rixford, San Francisco, Arch. Noted June 22.

Calif., San Francisco—(Official)—State Bd. of Control receives bids about Nov. 15 for state building. A. McDougal, Sacramento, State Arch. of California. Noted Aug. 24.

Que., Westmount—City Hall—City Council retained K. G. Rea, Arch., to make plans. About $200,000.

Ont., London—Pub. Utilities Comn. soon receives bids for building. About $75,000. E. V. Buchanan, Mgr.

Bids In and Contracts Awarded

Mass., Boston—Theater—New Columbia Co. let contract, 4-story, 90x150-ft., to FLEISCHMAN CONSTRUCTION CO., 294 Washington St. About $250,000.

Mass., Somerville—S. H. Lewis & Sons, 44 Kidder Ave., let contract 3-story masonic quarters, stores and office building to LEAHY-RATIGAN CONSTRUCTION CO., 7 Water St., Boston. About $60,000.

N. Y., New York—(Manhattan)—Trustees of Sailors Snug Harbor let contract studio buildings at Washington Mews and 8th St. to A. J. ROBINSON, 123 East 23rd St. Noted May 25.

N. Y., New York—(Manhattan)—Bethlehem Day Nursery let contract 5-story, 23x83-ft. building to FOUNTAIN & CHOATE, 110 East 23rd St. Noted July 13.

N. Y., New York—(Manhattan)—Nurses Home —Manhattan Eye, Ear and Throat Hospital let contract to MARK EIDLITZ, 30 East 42nd St. Noted July 27.

N. J., Hackensack — High School — Bd. Education let contract to W. L. CROW CONSTRUCTION CO., 103 Park Ave., New York. Noted Feb. 24.

N. J., Perth Amboy—Perth Amboy Savings Institution let contract bank, store and office building to G. B. WILLS & CO., 101 Park Ave., New York. About $125,000. Noted Aug. 10.

Penn., Allentown—Hotel—Contract let to CALDWELL MARSHALL CO., 121 Merchant Bank Bldg., Indianapolis, Ind. About $850,000.

Penn., Bakerstown—Home—St. Barabas Free Home let contract, 2-story, to H. SHANK CO., Century Bldg., Pittsburgh. About $150,000.

Penn., Braddock—Church and Parish House—S. S. Peter & Paul's Creek Church let contract. 1-story, to DUQUESNE CONSTRUCTION CO., Bessemer Bldg., Pittsburgh. About $90,000.

Penn., Chester—(Official)—Theater—J. F. Zimmerman let contract, brick, stone and concrete to SMITH, HARDICAN CO., 1606 Cherry St., Philadelphia. About $200,000. Noted Sept. 14.

Penn., Pittsburgh—Church—Russian Orthodox Church let contract, 2-story, 40x85-ft., to R. K. SEFTON, 510 East Diamond St., Pittsburgh. About $42,000. Noted Aug. 31.

Penn., Zelienople—Home—Pittsburgh Synod Lutheran Church let contract, 3-story, 50x100-ft. addition to MARTSOLF BROS., House Bldg., Pittsburgh. About $40,000. Noted Aug. 31.

Md., Sparrows Point—Office—Tinplate Co. let contract to H. SMITH & SONS, Sparrows Point.

D. C., Washington—Sunday School and Chapel —Sixth Presbyterian Church let contract to W. E. MOONEY, Evans Bldg. About $40,000.

Va., Hampton—Auditorium—Hampton Agricultural and Normal School let contract 1-story, to WHITNEY CO., Liberty St., New York. About $150,000. Noted June 1.

Va., Newport News—Bank—First National Bank let contract, 5-story, 50x100-ft., addition to HARWOOD & MOSS, Newport News. About $60,000.

Ga., Atlanta — Hospital — Chason & Chason, Bainbridge, let contract to RICHARDSON ENGINEERING AND CONSTRUCTION CO., Bainbridge.

Ala., Mobile—School—Mobile County let contract to SPITZER, RORICH & CO., Toledo, $150,000. Noted Aug. 17.

Ky., Covington—High School—Contract Homesdale High School let to J. J. CRAIG, 24 West 9th St., $129,825. Noted Aug. 24.

Ky., Louisville — School — Bd. Education let contract, 2-story addition, to A. MARKMAN & CO., 434 South Floyd St. About $40,000. Noted May 25.

Ohio, Cincinnati—High School—City received low bid from M. Craig, Covington, Ky., $129,875.

Ohio, Cleveland—Hotel—D. W. Mills let contract 4-story, 42x67-ft. addition to PAUL BROS., Citizens Bldg. About $40,000.

Ohio, Dayton—(Official)—Bank, Store and Office Building—Mutual Home and Savings Association let contract to G. A. FULLER CO., Swetland Bldg., Cleveland, $200,000. Noted Sept. 7.

Ohio, Elyria—(Official)—Bank—Elyria Savings Deposit Bank and Trust Co. let contract, 2-story, 36x100-ft. marble and granite, to G. B. WILLS CO., 101 Park Ave. Noted Sept. 14.

Ohio, Toledo—Administration Building—Lucas County let contract, 3-story, 81x97-ft. to A. BENTLEY & SONS Co., 201 Belmont Ave. About $85,000.

Ind., Huntington—Hospital—Huntington County let contract, 2-story, 45x97-ft. to E. M. CARMER, 205 East Market St., Huntington. About $40,000.

Ind., Indianapolis—Indianapolis Red Men's Wigwam Association let contract 3-story building to E. F. KOTTLOWSKI CO. About $40,000.

Ind., Nappanee—School—Bd. Education let contract, 2-story, 80x144-ft., to E. BURNER & CO., 320 Sycamore St., South Bend. About $55,000. Noted July 20.

Ill., Hudson—Town Hall—Town let contract to E. WEAVER, Downs.

Wis., Milwaukee—(Official)—Milwaukee County let contract house of correction to HARRIS TRUST AND SAVINGS CO., Chicago, Ill. About $380,000. Noted Sept. 7.

Iowa, Ames—State Bd. Education will build animal husbandry laboratories and hospital at Iowa State College of Agriculture and Mechanic Arts by day labor. About $50,000 and $35,000 respectively. Noted Sept. 7.

Iowa, Irwin—School—City let contract, 2-story, to C. C. NORGAARD & SON, 68 North Main St., Council Bluffs, $49,295. Noted June 22.

Minn., Eveleth—High School—Contract let to R. J. McLEOD and J. A. SMITH, $117,800. Noted Aug. 10.

Minn., Wabasha—High and Grade School—Bd. Education let contract addition to J. MOLIN, 677 Sherburne Ave., St. Paul. About $40,000. Noted May 11.

Kan., Parsons—Insane Asylum—State Bd. of Control, State House, Topeka, let contract, 2-story, 50x197-ft., brick, to J. M. PARHAM, Dodge City, $42,682. Noted Aug. 10.

N. D., Fargo—Hospital—St. Lukes Hospital let contract to T. F. POWERS & CO., Fargo, $41,000. Noted June 22.

Mont., Butte—Knights of Columbus let contract building to SOUND CONSTRUCTION CO.

Mo., Moberly — High School — Bd. Education let contract to CASHNER & LIVENGOOD, Midland Bldg., Kansas City, Mo. About $45,000. Noted July 27.

Mo., St. Louis — School — Bd. Education let contract 3-story addition to E. C. GERHARD BUILDING CO., Victoria Bldg.

Ark., Jonesboro—(Official) — High School—School Bd. let contract to SEYMOUR BROS., Jonesboro. Noted Sept. 7.

Tex., Austin—Bd. Control let contract buildings at Deaf and Dumb Institute to A. A. MUNDT, Austin, $40,000. Noted Aug. 17.

Okla., Sand Springs—Dormitory—C. Page, First National Bank Bldg., Tulsa, let contract, 4-story, 60x240-ft., to HAMMONDS & JAMES, Sand Springs. About $60,000.

Idaho, Wallace—Infirmary and Hospital—Shoshone County let contract to A. J. TURNER, Wallace, $58,456.

Wash., Tacoma—Store—Contract, 3-story, 90x100-ft., terra cotta, let to KUVELL BROS., 1211 South L St., $40,000.

Ore., Enterprise—S. D. Keltner let contract 2-story building to J. OBERG, Enterprise.

Calif., Sacramento — Hospital — Sacramento County received lowest bid, 2-story, from W. C. Keating, Sacramento, $76,077.

Calif., Sacramento—Hall—Native Sons let contract to McGILLIVRAY CONSTRUCTION CO., Sacramento, $140,700.

* * *

PAVING, ELGIN, ILL.

Bids received by city for paving Raymond and Watch St. from (A) Engineer's Estimate; (B) LOGAN & GIERTZ CONSTRUCTION CO., Elgin (awarded contract); (C) Illinois Hydraulic Stone and Construction Co., Elgin. The item bids were as follows:

	A	B	C
17,238 sq.yd. brick pavement	$1.90	$1.95	$2.00
10,018 lin.ft. curb and gutter	.55	.55	.55
426 lin.ft. concrete headers	.35	.35	.35
70 gutter plates	3.00	3.00	3.00
70 sidewalk headers	2.00	2.00	2.00
Adjusting man holes and catch basins (lump sum)	50.00	50.00	50.00
Extended totals	$38,811	$39,573	$40,535

SEWER SYSTEM, BOGOTA, N. J.

Section No. 2

Bids received by Borough Council Sept. 15 for constructing sewer system from (A) R. F. Relly, Oswego, N. Y.; (B) Martin, Miller & Pizzimenti, Caldwell; (C) C. S. Edwards Co., Jersey City; Averill-Mathews Co., Newark, $23,926; Torielle & Sansone, Hackensack, $25,728. The item bids of the 3 lowest bidders were as follows:

	A	B	C
4,950 lin.ft. 8-in. vitrified sewer pipe, 0 to 6 ft. deep	$0.65	$0.70	$0.72
12,550 lin.ft. 8-in. vitrified sewer pipe, 6 to 8 ft. deep	.78	.80	.90
1,650 lin.ft. 8-in. vitrified sewer pipe, 8 to 10 ft. deep	1.25	1.25	1.35
330 lin.ft. 8-in. vitrified sewer pipe, 10 to 12 ft. deep	1.50	1.75	1.70
8-in. vitrified sewer pipe, 12 to 14 ft. deep	2.25	2.50	2.50
8-in. vitrified sewer pipe, 14 to 16 ft. deep	3.25	3.50	4.00
205 lin.ft. 10-in. vitrified sewer pipe, 0 to 6 ft. deep	.71	.75	.85
475 lin.ft. 10-in. vitrified sewer pipe, 6 to 8 ft. deep	.84	.85	1.10
10-in. vitrified sewer pipe, 8 to 10 ft. deep	1.30	1.75	2.00
10-in. vitrified sewer pipe, 10 to 12 ft. deep	1.55	2.50	2.50
100 lin.ft. deep house connections	.70	1.00	.60
6 M ft. b.m. lumber foundations	20.00	30.00	40.00
3 M ft. b.m. lumber sheeting	20.00	30.00	45.00
C.-i. pipe	60.00	80.00	50.00
25 cu.yd. concrete 1:3:5	7.85	7.50	8.00
Concrete 1:2½:4½	9.50	12.00	10.00
96 manholes, 8 ft. under	45.00	45.00	47.00
7 lin.ft. extra depth over 8 ft	6.00	4.00	3.50
Extended totals	$20,916	$21,608	$23,515

TRADE PUBLICATIONS

Electric Portable Tools. Chicago Pneumatic Tool Co., Chicago, Ill. Bulletin E-41. Pp. 8. 6x9 in. Describe the Duntley electric tools adapted especially to street-railway trackwork.

Kahn Steel Buildings. Trussed Concrete Steel Co., Youngstown, Ohio. Catalog. Pp. 28. 8½x11 in. Illustrated. Describes pressed-steel units readily framed into buildings for factories, storehouses, offices, shops, etc.

Pneumatic Mixer, Conveyor and Placer. Pneumatic Placing Co., 2 Rector St., New York. Form No. 17. Pp. 4. 6x9 in. Illustrated.

"Better Electric Motors." S. K. F. Ball Bearing Co., Hardford, Conn. Pp. 62. 6x9 in. This is the title of a bulletin on the application of ball bearings to electrical machinery and contains much useful information on the subject.

Bulb Sections. Carnegie Steel Co., Pittsburgh, Penn. **Third** edition. Pp. 16. 5x7½ in. Illustrated.

Electric Pyrometers—Wilson-Maeulen Co., 781 East 142 St., New York. Catalog No. 11. Pp. 24. 8x10½ in. Illustrated.

Galvanized Sheets for construction of culverts, flumes, tanks, cisterns, silos and for roofing and siding. American Sheet and Tin Plate Co., Pittsburgh, Penn. Booklet. Pp. 20. 8½x11 in. Illustrated.

Transits and Levels. Kolesch & Co., 138 Fulton St., New York. This is a Spanish catalog entitled "Instrumentos de Agrimensura." Pp. 32. 6x9 in. Illustrated.

Boiler and Pipe Coverings, Etc.—Ehret Magnesia Mfg. Co., Valley Forge, Penn. Catalog. Pp. 62. 5½x8 in. Describes the 85% magnesia coverings made by this company, also asbestos and wool-felt coverings, cold-water paint, locomotive boiler lagging.

Slag for Building. Standard Slag Co., Youngstown, Ohio. Catalog. Pp. 56. 8x11 in. This contains considerable information on the subject of slag as a concrete aggregate, also condensed reports of tests and chemical and physical analysis.

Nicolas S. Hill, Jr., and S. F. Ferguson, Consult. Engrs., 100 William St., New York, N. Y., have been retained by the city of Birmingham, Ala., to make a valuation of the water-works and advise in connection with the proposed purchase of same from the Birmingham Water Works Co.

Construction News

BUILDING OPERATIONS FOR SEPTEMBER

Following is a list of contracts awarded, published by the F. W. Dodge Co., throughout the States of New England, New York, New Jersey, Pennsylvania, Maryland, Delaware, District of Columbia, Virginia, Ohio, West Virginia, Illinois, Indiana, Iowa, Wisconsin, Michigan, North and South Dakota and portions of Missouri and eastern Kansas:

January 1 to October 1, 1916	$970,251,397
January 1 to October 1, 1915	680,615,100
January 1 to October 1, 1914	579,042,100
January 1 to October 1, 1913	682,425,500
January 1 to October 1, 1912	627,477,000
January 1 to October 1, 1911	607,638,813
January 1 to October 1, 1910	633,002,305

Contracts awarded from New York State and northern New Jersey:

January 1 to October 1, 1916	$180,803,500
January 1 to October 1, 1915	120,400,500
January 1 to October 1, 1914	100,266,000
January 1 to October 1, 1913	214,106,500
January 1 to October 1, 1912	186,517,000
January 1 to October 1, 1911	183,429,000
January 1 to October 1, 1910	186,084,000

These figures for the entire territory show that to date 1916 is the largest building year for contracts awarded which we have had, and for the territory of New York State and northern New Jersey, this year is about the same as 1910, 1911 and 1912. The contracts for the larger territory during September amounted to $132,226,475, and for the smaller territory $35,718,000. These figures are against $142,000,000 for the larger territory in August, and $114,000,000 for July, and for the smaller territory of $40,000,000 in August and $29,000,000 for July, both territories showing a little falling off against August, but an increase over July.

IRON AND STEEL

Pig Iron—Below are the present quotations, with a comparison of a month and a year ago:

	Oct. 5, 1916	One Month Ago	One Year Ago
CINCINNATI			
No. 2 Southern foundry	$17.40	$16.90	$14.40@15.40
No. 2 Northern foundry	20.26	19.26	15.76@16.01
NEW YORK			
No. 2X Northern foundry	19 50@19.75	19.50@19.75	16.25@16.50
No. 2 plain Northern foundry	19.25@19.50	19.25@19.50	15.75@16.00
No. 2 Southern foundry†	19.50@19.75	19.25@19.75	....
BIRMINGHAM			
No. 2 Southern foundry	14.50	14.00	12.00@12.50
CHICAGO			
No. 2 Northern foundry	18 50	18.00	14.25@14.75
PITTSBURGH			
Bessemer iron*	22.95	21.95	16.95
Basic iron*	19.95	18.95	15.95

*These prices include the freight charge from the valley to the Pittsburgh district. †Delivered tidewater, New York.

Cast-Iron Pipe—The following are prices per net ton for carload lots:

	New York	Birmingham	Chicago	St. Louis	San Francisco
4 in.	$34.50	$29.00	$34.50	$35.00	$40.00
6 in. and over	31.50	26.00	31.50	32.00	37.00

Gas pipe and 16-ft. lengths are $1 per ton extra.

Structural Material—The following are the base prices f.o.b. mill, Pittsburgh, together with the quotations per 100 lb. from warehouses at the places named:

	Pittsburgh	St. Louis	New York	Chicago	San Francisco
Beams, 3 to 15 in	$2.60@2.75	$3.30	$3.35	$3.25	$4.25
Channels, 3 to 15 in	2.60@2.75	3.30	3.35	3.25	4.25
Angles, 3 to 6 in., ¼ in. thick	2.60@2.75	3.30	3.35	3.25	4.25
Tees, 3 in. and larger	2.60@2 75	3.30	3.40	3.25	4.25
Plates	3.25@4.00	3.80	4.00	3.75	4.75

Extras on other shapes and sizes in cents per lb. are as follows:

I-beams over 15 in	.10
Angles over 6 in., on one or both legs	.10
Angles, 3 in. on one or both legs less than ¼ in. thick	.70
Cutting to lengths, under 3 ft. to 2 ft inclusive	.25
Cutting to lengths, under 2 ft. to 1 ft. inclusive	.50
Cutting to lengths, under 1 ft	1.55

Track Supplies—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	Mill, Pittsburgh,	Chicago	St. Louis	San Francisco
Standard railroad spikes	$2.65	$3.25	$3.30	$3.40
Track bolts	3.25@3.50	4.05	Premium	3.80
Standard section angle bars	2.00	....	Premium	3.15

Steel Rails—The following quotations are per 100 lb. f.o.b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh	Chicago
Standard bessemer rails	$33.00	$33 00
Standard openhearth rails	35.00	35.00
Light rails, 8 to 10 lb	50.00	43.00
Light rails, 12 to 14 lb	49.00	42.00
Light rails, 25 to 45 lb	47.00	40.00

Old Material—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis and vicinity, the quotations are per net ton and cover delivery at the buyer's works, including frenght transfer charges:

	New York	
	Oct. 5, 1916	One Month Ago
Heavy melting steel scrap	$11 75@12.00	$11.75@12.00
No. 1 railroad wrought	19.75@20.00	18.50@18.75
Stove plate	11.50@12.00	11.50@12.00
No. 1 machinery cast	15.75@16.00	16.00@16.50
Machine shop turnings	5.00@ 5.25	4.25@ 4.50
Cast borings	7.00@ 7.50	6.75@ 7.00
Railroad malleable cast	12.00@12.50	12.00@12.50

	Chicago	
	Oct. 5, 1916	One Month Ago
No. 1 railroad wrought	$16.50@17.00	$15.50@16.00
Stove plate	9.75@10.25	9.25@ 9.75
No. 1 machinery cast	12.25@12.75	11.50@12.00
Machine shop turnings	5.50@ 6.00	5 50@ 6.00
Cast borings	6.50@ 7.00	6.25@ 6.75
Railroad malleable cast	11.50@12.00	11.25@11.75

	St. Louis	
	Oct. 5, 1916	One Month Ago
Heavy melting steel scrap	$17.50@18 00*	$15.50@16.00
No. 1 railroad wrought	18.00@18.50†	15.75@16.25
Stove plate	10.75@11.00†	9.00@ 9.50
No. 1 machinery cast	13.00@13.50†	11.25@11.75
Machine shop turnings	7.25@ 7.50†	7.25@ 7.75
Cast borings	8 25@ 8.50†	6.75@ 7.00
Railroad malleable cast	12.75@13.00†	11.00@11.50

*Gross ton. †Per net ton.

Nails—The following quotations are per keg from warehouse:

	New York	St. Louis	Chicago	San Francisco
Wire	$3.15	$3.05	$2.95	$3.50
Cut	3.15	2.95	3.05	3.85

Wire Rope—Discounts from list price on bright and galvanized are as follows:

	New York	St. Louis	Chicago	San Francisco
Galvanized	20—2½%	20—2½%	20—2½%	20%
Bright	30—2½%	30—2½%	30—2½%	30%

At this rate the net prices in New York for galvanized, 7 wires to strand, are as follows per 100 lb.:

Diameter, In.		Diameter, In.	
½	$4.40	1¼	$18.30
⅝	5.90	1⅜	20.80
¾	6.60	1½	25.60
⅞	9.50	1⅝	27.80
1	11.00	1¾	32.20

Sheets—Quotations are in cents per pound in various cities from warehouse, also the base quotation from mill:

					New York	
	Large Lots, Pittsburgh	St. Louis	Chicago	San Francisco	Oct. 5, 1916	1 Year Ago
Blue Annealed						
No. 10	3.00	3.45	3.40	5.00	4.25	2 20
No. 12	3.05	3.50	3.45	5.05	4.30	2.25
No. 14	3.10	3.55	3 50	5.10	4.35	2.30
Black						
Nos. 18 and 20	2.90	3.20	3.15	4.75	3.45	2.50
Nos. 22 and 24	2.95	3.15	3.20	4.80	3.50	2.55
No. 26	3.00	3.20	3.25	4.85	3.55	2.60
No. 27	3.05	3.25	3.30	4.90	3.60	2.65
No. 28	3.10	3.30	3.35	4.95	3.65	2.70
Galvanized						
No. 10	3.25	4.60	3.95	5.40	4.10	3.65
No. 12	3.35	4.60	3.95	5.50	4.25	3.80
No. 14	3.35	4.60	3.95	5.50	4 25	3.80
Nos. 18 and 20	3 65	4.60	4.15	5.95	4.55	4.05
Nos. 22 and 24	3.80	4.70	4.30	6.15	4.60	4.15
No. 26	3.95	4.70	4.45	6.30	4.70	4.20
No. 27	4.10	4.70	4.60	6.45	4.85	4.35
No. 28	4.25	4.70	4 75	6.60	5.00	4.50

Chain—Quotations below are per 100 lb.:

	New York				
In.	Oct. 5, 1916	One Year Ago	Chicago	St. Louis	San Francisco
3/16	$10 10	$7.50	$9.40	$12 50	$13.50
¼	7.55	4.95	6.85	9.00	9.75
5/16	6.55	3.95	5.85	7.50	8.50
⅜	6.00	3.40	5.30	6.75	8.00
7/16	5.80	3.20	5 15	6.65	7.75
½ and 9/16	5.60	3.00	5.00	6.50	7.50
⅝ and 11/16	5.50	2.90	4.90	6.40	7.50
¾ and 13/16	5.40	2.80	4.80	6.25	7.25
⅞ and 15/16	5.30	2.70	...	6.15	7.10
1 to 1¼	5.20	2.60	...	6.00	7.00

EXTRAS TO ABOVE LIST PER 100 LB.

	For BB	For BBB
3/16 in. and ¼ in.	$1.50	$2.00
5/16 in. and larger	1.25	1.75

Pipe—The following discounts are for carload lots f.o.b. Pittsburgh:

Steel Inches	Black	Galvanized	Iron Inches	Black	Galvanized
Butt Weld					
¾ to 3	69%	55½%	¾ to 1½	59%	43%
Lap Weld					
2	63%	50½%	1¼	46%	31%
2½ to 6	66%	53½%	1½	52%	38%
7 to 12	63%	49½%	2	53%	39%
13 and 14	63½%	....	2½ to 4	55%	42%
15	51%	....	4½ to 6	55%	42%
			7 to 12	54%	41%
Butt Weld, Extra Strong Plain Ends					
¾ to 1½	67%	54½%	¾ to 1½	60%	45%
2 to 3	68%	55½%			
Lap Weld, Extra Strong Plain Ends					
2	61%	49½%	1¼	48%	33%
2¼ to 4	64%	52½%	1½	53%	39%
4½ to 6	63%	51½%	2	55%	42%
7 to 8	59%	45½%	2¼ to 4	57%	45%
9 to 12	54%	40½%	4½ to 6	56%	44%
			7 to 8	50%	38%
			9 to 12	45%	33%

From warehouses at the places named the following discounts hold for steel pipe:

	Black New York	Chicago	St. Louis
¾ to 3 in. butt welded	63%	64 8%	64.64%
3½ to 6 in. lap welded	59%	61.8%	61.64%
7 to 12 in. lap welded	53%	58.8%	58.64%

	Galvanized New York	Chicago	St. Louis
¾ to 3 in. butt welded	47%	50.8%	50.14%
3½ to 6 in. lap welded	41%	48.8%	48.14%
7 to 12 in. lap welded	29%	44.8%	44.14%

Malleable fittings, Class B and C, from New York stock, sell at 30 and 5% from list price. Cast iron, standard size, 55%.

Plain Bars, Concrete Reinforcing—The following quotations are per 100 lb.:

		Warehouse				
		New York				
In.	Mill Shipment	Oct. 5, 1916	One Month Ago	St. Louis	Chicago	San Francisco
¾ and larger	$2.60	$3 35	$3.25	$3.24	$3.10	$4.00
⅝	2 65	3.45	3.35	3.29	3.18	4.10
½	2.70	3.50	3 40	3.34	3.23	4.20
⅜	2.85	3.75	3.65	3 49	3.40	4.50
¼	3.10	4.10	4 00	3.74	3.75	5.00

Twisted bars, 10c. extra. Cutting, 2 ft. and over, 15c. per 100 lb. extra.

Triangle Mesh—Price per 100 sq.ft. for 4 in-mesh in carload lots:

		Plain				Galvanized		
Style No.	Cross-Sec. Area per Ft. Width	New York	St. Louis	Chicago	San Francisco	New York	St. Louis	San Francisco
4	0.102	$1.53	$1.58	$1.728	$1.96	$1.74	$1.80	$2.19
5	0.077	1.21	1.25	1 361	1.56	1.38	1.42	1.73
6	0.058	.96	.99	1.082	1.23	1.09	1.13	1.36
7	0.041	.75	.77	.847	.96	.85	.88	1.06
23	0.170	2.56	2.65	2.89	3.29	2.92	3.01	3.65
24	0.142	2.20	2.29	2.545	2.83	2.51	2 60	3.14
25	0.124	1.95	2.03	2.204	2.52	2.23	2.30	2.79
26	0.110	1.76	1.85	2 008	2.29	2.03	2 10	2.54
27	0.085	1.46	1.51	1.65	1.87	1.66	1.72	2.07
28	0.066	1.21	1.25	1.324	1.55	1.38	1.42	1.72
29	0.049	.99	1.04	.972	1.28	1 13	1.18	1.42
31	0.261	3.76	3.91	5.245	4.84	4 29	4.44	5.37
32	0.225	3.27	3.39	4.726	4.20	3 73	3.85	4.66
33	0.196	2.91	3.02	3 484	3.75	3.32	3.43	4.16
34	0.140	2.24	2.32	2.562	2.88	2.55	2.64	3.19
35	0.109	1.78	1.85	2.001	2.29	2.03	2 10	2.54
36	0.075	1.31	1.37	1.342	1.69	1.50	1 55	1.87
38	0.380	5.36	5.57	6.067	6.90	6.12	6 32	7.65
39	0.325	4.62	4.80	5.824	5.94	5.27	5.45	6.39
40	0.283	4.05	4.20	5.462	5.21	4.62	4.77	5.78
41	0.208	3.13	3.21	4.533	3.97	3 52	3.65	4.40
42	0.151	2.34	2.44	2.654	3.01	2 67	2.77	3.34
43	0 101	1.67	1.73	1.992	2.14	1.90	1.97	2.37

Less than carload lots this material is about 10% higher.

Rivets—The following quotations are per 100 lb.:

		Warehouse			
	Mill, Pittsburgh	New York	Chicago	St. Louis	San Francisco
Structural					
¾ in. and larger	$4.00	$5.25	$3.75	$4.05	$5.40
Cone Head Boiler					
¾ in. and larger	4.10	5 35	3.85	4 15	5.50
⅝ and 11/16	4.25	5.50	4.00	4.30	5.65
½ and 9/16	4.60	5 85	4.35	4.65	6.00

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

Expanded Metal Lath—Prices per 100 yd. for painted are as follows to contractors:

		Carload			
Gage	Weight	New York	Chicago	St. Louis	San Francisco
27	233	$18.00	$16.50	$18.00	$15.75
26	250	19.00	17.50	19.00	16.50
25	300	20 00	18.50	....	17.75
24	340	21.00	19.50	21.00	18 75
22	450	24.00	22.50	....	23.50

About 10% additional for smaller quantities. For galvanized, New York, add $8, and $5 for tuncan. Galvanized, San Francisco, add $12, and $3 for tuncan.

Steel Sheet Piling—The following price is base per 100 lb. f.o.b. Pittsburgh, with a comparison of a month and a year ago:

Oct. 5, 1916	One Month Ago	One Year Ago
$2.50@2.60	$2.50@2.60	$1.55@1.60

Freight Rates—On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.

Baltimore	15.40	Minneapolis	32.90
Boston	18.90	New Orleans	30.70
Buffalo	11.60	New York	16.90
Chicago	18 90	Pacific Coast (all rail)	65.00
Cincinnati	15.80	Philadelphia	15.90
Cleveland	10.50	St. Louis	23.60
Denver	68.60	St. Paul	32.90
Kansas City	43.60		

CEMENT, BRICK AND STONE

Portland Cement—These prices are for barrels in carload lots in cotton bags:

	Oct. 5, 1916	One Month Ago	One Year Ago
New York	$1.72	$1.72	$1.52
Jersey City	1.60	1.66	1.46
Boston	1.92	1.92	1.67
Chicago	1.86	1.86	1.81
Pittsburgh	1.81	1.81	1.81
Cleveland	1.94	1.94	....
Detroit	1 95	1 90	....
Indianapolis	1.99	1.99	....
Toledo	1 99	1.99	1.74
Milwaukee	1.98	1.98	1.78
Minneapolis	2.13	2.13	1.98
Duluth	2.06	2.06	1.91
Peoria	1.98	1.94	1.69
Cedar Rapids	2.09	2.05	1.80
Davenport	2.04	1.95	1.70
St. Louis	1.85	....	....
San Francisco	2.30	2 30	....

Crushed Stone—Price for cargo or carload lots is as follows:

	1½ In.	¾ In.
New York	$0.90	$1.00
Chicago	.90	.90
St. Louis	1.00	1.00
San Francisco	1.25	1.25

Sand and Gravel—Price for cargo or carload lots is as follows:

	Gravel Paving	1½ In.	¾ In.	Sand
New York	$1.25	$1.00	$1.10	$0.50 per cu.yd.
Chicago	....	.90	.90	.85 per cu.yd.
St. Louis	....	.70	.70	.60 per cu.yd.
San Francisco	1.25	1.01	1.01	1.01 per cu.yd.

Curbing—Prices per linear foot are as follows:

New York	5x16	$0.40
	5x20	.45
Chicago	6x18	.45
St. Louis	5x16	.68
San Francisco	5x16	.75
	5x20	.85

Brick—The price per 1,000 in cargo or carload lots is as follows:

	Common	Paving
New York	$7.00	block $26.50 brick 17.25
Chicago	6 00	14.50
St. Louis, salmon	7.75	block 17.00
St. Louis, selected	10.50	
San Francisco	10.00	block 33.00

Paving Stone—

New York	Manhattan	$2.40 sq yd
	Other boroughs	2.20 sq yd
Chicago	About 4x8x5 dressed	2.15 sq.yd.
	About 4x8x5 common	1.65 sq.yd.
San Francisco	Basalt block 4x7x8	58.00 per M

Flagging—

New York	Bronx	$0 17 sq.ft.
	Manhattan	.17 sq.ft.
	Queens, 5 ft. square	.18 sq.ft.
Chicago	18 in. wide	.60 lin.ft.

MISCELLANEOUS

Flue Lining—Price per foot in cents in carload lots:

	New York Oct. 5, 1916	One Year Ago	Chicago	St. Louis	San Francisco
4½x 8½ in.	10.80	4.50	12.00	11.00	12.00
4½x13 in.	14.40	6 80	16.00	15.00	18.00
8 x 8½ in	14.40	6.80	16.00	14 00	16 00
8½x13 in.	21.60	9.80	20.00	18.00	22.00
8½x18 in.	31.40	13.50	....	28.00	30.00
13 x18 in.	27 60	18.00	42.00	40.00	40 00
18 x18 in.	54.00	30.00	55.00	60.00	....

Poles—Price of Western red cedar poles is as follows:

	New York	Chicago	Denver	St. Louis
6 in. by 30 ft	$4.77	$4.07	$3.41	$4.07
7 in. by 30 ft.	5.90	5.10	4.30	5.10
7 in. by 45 ft.	7.85	6.85	5.90	6 85
8 in. by 35 ft.	9.75	8.50	7.30	8.50
7 in. by 40 ft	9.95	8.65	7.40	8.65
8 in. by 40 ft.	11.25	9.65	8.15	9 65
*8 in by 45 ft.	14.45	12.45	10.55	12.45
*8 in. by 50 ft.	16.85	14.45	12.15	12.45

*10c. higher freight rates on account of double loads.

Lumber—Price per M in carload lots:

Square Edge and Sound Green

Southern Pine—New York:

	20 Ft. and Under	22-24 Ft.	26 Ft.	28 Ft.	30 Ft.	32 Ft.
3x 4 to 8x 8.....	$26.50	$27.50	$28.50	$28.50	$29.50	$29.50
3x10 to 10x10.....	27.50	28.50	29.50	29.50	30.50	30.50
3x12 to 12x12.....	32 00	33 00	34.00	34.00	35.00	35.00
3x14 to 6x14.....	34.00	35.00	36.00	36 00	37.00	37.00
7x14 to 14x14.....	34.00	35.00	36.00	36.00	37.00	37.00
3x16 to 6x16.....	36.00	37.00	39 00	39 00	41.00	41.00
7x16 to 16x16.....	36 00	37.00	39.00	39.00	41.00	41.00
3x18 to 8x18.....	39 00	40.00	42.00	42.00	44.00	44.00
9x18 to 18x18.....	39 00	40 00	42.00	42.00	44.00	44.00
4x20 to 20x20.....	42.00	43.00	45.00	45.00	47.00	47.00

Yellow Pine—St. Louis:

	20 Ft.	22 and 24 Ft.	26 Ft.	28 Ft.	30 Ft.	32 Ft.
3x 4 to 8x 8.....	$21.00	$22.00	$23 00	$24.00	$25.00	$26.00
3x10 to 10x10.....	22.00	23.00	24.00	25.00	26.00	27.00
3x12 to 12x12.....	23.50	24 50	25.50	26.50	27.50	28.50
3x14 to 6x14.....	25.00	26.00	27 00	28 00	29.00	30.00
7x14 to 14x14.....	25.00	26.00	27.00	28.00	29.00	30.00
3x16 to 6x16.....	27.00	28.00	29.00	30.00	31.00	32.00
7x16 to 16x16.....	27 00	28.00	29.00	30.00	31 00	32 00
3x18 to 18x18.....	29.00	30.00	31.00	32.00	33.00	34.00
8x18 to 18x18.....	29.00	30.00	31.00	32.00	33.00	34.00
4x20 to 20x20.....	33.00	34.00	35 00	36.00	37.00	38.00

Over 32 ft—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12x12 and under; for sizes over 12x12 add $2. For merchantable add $2 to sizes 10x10 and under. For prime add $2 to the price of merchantable for all sizes.

Rough Douglas Fir, No 1 Common—More than carload lots in San Francisco—ship's tackle:

Size in Inches	15 Ft. and Under	16 to 24 Ft.	25 to 32 Ft.
3 and 4x4....................	$14.50	$16 00	$17.00
3 and 4x6 and 8..............	14.50	15.00	16.00
6x6 to 8x8....................	15.00	16.00	16.00
3 and 4x10....................	14.50	16.00	17.00
6 and 8x10....................	15.50	16.50	16.50
10x10	15.50	15 50	17.50
3 and 4x12....................	14.50	16.00	17.00
6 and 8x12....................	16.00	17.00	17.00
10 and 12x12....................	15.50	15.50	17.50
3 and 4x14....................	15.50	17.50	18 50
6 and 8x14....................	17 00	18.00	18.00
7 and 9x14....................	18.00	19.00	19.00
10 and 12x14....................	16.50	16 50	18.50
14x14	15.50	15.50	17.50
3 and 4x16....................	16.50	19.00	20.00
6 and 8x16....................	18.50	19.50	19 50
7 and 9x16....................	19.50	20.50	20.50
10 and 12x16....................	17.50	17.50	19.50
14 and 16x16....................	15.50	15.50	17.50
3 and 4x18....................	17 50	20.50	22.50
6 and 8x18....................	19.00	21.50	21.50
7 and 9x18....................	20.00	22.50	22 50
10 and 12x18....................	18.50	18.50	20.50
14 and 16x18....................	16.50	16.50	18.50
18x18	17 50	17.50	19.50
3 and 4x20....................	19.50	22.00	24.00
6 and 8x20....................	21.00	24 50	24.50
10 and 12x20....................	19.50	19.50	21 50
14 and 16x20....................	17.50	17.50	19.50
18 and 20x20....................	18.50	18.50	20.50

Figured on $5.50 off on $20, base price.

Asphaltum—Price per ton in packages:

	Brand	
New York	Mexican	$19.50
Chicago	Mexican	21.50
Kansas City	Mexican	21.50
Denver	California	21.50
San Francisco	California	11 50

Wood Block Paving—

Chicago	4 in. block 16 lb. treatment	$1.85 sq yd.
St. Louis	4 in. block 16 lb treatment	1.39 sq.yd.

Sewer Pipe—The following prices are in cents per foot for carload lots:

	New York			
Size, In.	Oct. 5, 1916	One Year Ago	St. Louis	San Francisco
3	7 80	4.50	....	6.00
4	7.80	4.50	....	8.00
5	11.70	7.20	....	10.00
6	11.70	7.20	8.25	12 00
8	18.20	9 90	13.50	18.00
10	27.30	14 40	18.00	27.00
12	35.10	18.00	24.50	33.75
15	46.80	24.30	35.00	....
18	65.00	34.20	52.50	67.50
20	78.00	40 50	70.00	87.50
22	$1.04	54.00	84.00	$1.05
24	1.17	58.50	$1.00	1.25
27	1.755	$1.26	1.30	....
30	1.944	1.54	1.70	....
33	2.61	2.06	2.25	....
36	2.972	2 31	2.50	....

Clay Drain Tile—The following prices are per 1,000 lin ft.:

Size, In.	New York	St. Louis	Chicago	San Francisco
3	$23.00	$16.00	$15 00	$24.50
4	32.45	18.00	18.00	31.50
5	45.00	25.00	23.00	45.50
6	56 55	35.00	27.00	63.00
8	95.80	65.00	55.00	105.00

Hollow Tile—Hollow building tile price per block in cents:

	New York	Chicago	St. Louis	San Francisco
4x12x12 in	.070	.064	.054	.07
6x12x12 in.	.098	.092	.066	.095
8x12x12 in.	.119	.108	.09	.12
10x12x12 in.	.140	.127	.15	.18
12x12x12 in.	.1750	.146	.18	.20

Fireproof partition blocks price per block in cents:

2x12x12 in.	.048	.043	.024	.055
3x12x12 in.	.048	.044	.036	.065
4x12x12 in.	.054	.047	.048	.07
6x12x12 in	.072	.64	.066	.095
8x12x12 in.	...	.87	.085	.12

Above prices are for carload lots or more.

Railway Ties—For fair-size orders, the following prices per tie hold:

	Material	7 In by 9 In. by 8 ft. 6 In.	6 In. by 8 In by 8 Ft.
New York...........	Yellow Pine	$1.05	$0.90
St. Louis...........	White Oak	.72	.61
Chicago...........	White Oak	.90	.80
San Francisco........	Green	.74	.53
San Francisco........	Creosoted	1.34	.96

Linseed Oil—These prices are per gallon:

	New York		Cleveland		Chicago	
	Oct. 5, 1916	Three Months Ago	Oct. 5, 1916	Three Months Ago	Oct. 5, 1916	Three Months Ago
Raw in barrels.......	$0.75	$0.73	$0 76	$0 75	$0.72	$0.78
5-gal. cans	.85	.83	.86	.85	.82	.88

Boiled, 1c. per gal. additional.

White and Red Lead, in cents per pound, as follows:

	Red		White
	Dry	In Oil	Dry and In Oil
100-lb. keg	10 50	11.00	10.50
25 and 50-lb. kegs....................	10.75	11.25	10.75
12½-lb. keg	11.00	11 50	11.00
1- to 5-lb. cans	12 50	12 50	12.50

MISCELLANEOUS METALS

Miscellaneous Metals—The present quotations in cents per pound with a comparison of practically a month and a year ago are as follows:

	New York		
	Oct. 5, 1916	One Month Ago	One Year Ago
Copper, electrolytic (carload lots)..	29.50	28.00	18 25
Tin	39.50	38.87½	33.00
Lead	7.00	6 50	4.50
Spelter	9.00	9.50	14.00

ST. LOUIS

Lead	7.00	5.87½	....
Spelter	9.00	8.75	....

Old Metals—In New York the following are the dealers' purchasing prices in cents per pound:

	Oct. 5, 1916	One Month Ago	One Year Ago
Copper, heavy and crucible....................	24.00	21.75	15.00
Copper, heavy and wire....................	23 00	20.75	14.75
Copper, light and bottoms....................	19.00	17.50	12.50
Lead, heavy	5.75	5.00	3.50
Lead, tea	5.25	4.50	3.25
Brass, heavy	13.00	12.50	10.00
Brass, light	10.50	10.00	8.50
No. 1 yellow rod brass turnings....................	14.00	13.75	11.50
Zinc	6 75	6.25	8.00

Railway Construction in China—In addition to the large conservancy scheme which the Seims-Carey Railway and Canal Co., St. Paul, Minn., is preparing to undertake for the Chinese government, it is reported that it has just closed a contract for the construction of about 1,100 mi. of railway on a percentage basis, same to be financed by the American International Corporation, of New York. Work on the project probably will not start for another year on account of the vast amount of preliminary work necessary.

Proposed Improvement of Chilean River Port—A bill for the improvement of the river port of Lebu is under discussion in the Chilean congress. A recent number of the "Diario Illustrado" states that Manuel Jervasio Alarcon, resident in London, and Carlos Alarcon have presented a project for the improvement of this port with American capital. The plans have been prepared by Julio Delaunay, and the cost is estimated at approximately $3,000,000. The port of Lebu is near the Chilean coast and is in the region of important coal mines.

Proposed Improvement of Russian Port—The British vice-consul at Theodosia, on the Black Sea, reports that the port authorities are doing their utmost to improve the harbor. It has practically been decided to lay down new railway lines on the quay and erect four movable cranes. As soon as the war is over it is expected that Theodosia will have facilities for discharging all kinds of goods, particularly coal from the United Kingdom. It is also proposed to have a floating crane with a lifting capacity of 50 tons permanently in the port.

The Brennan Engineering Co., Delaware Bldg., 36 West Randolph St., Chicago, Ill., announces that on Aug. 1 the business was incorporated under the name of Brennan-Wahl Co.

The Pacific Tank and Pipe Co. announces that it has established offices at 318 Market St., San Francisco, Calif., where it will be pleased to welcome its customers and friends.

The Chicago Bridge and Iron Works announces the removal of its southeastern office to 805 Florida Life Bldg., Jacksonville, Fla., where it will handle its business in Alabama, Florida and Georgia. E. G. Ladd is Mgr.

Henry A. Hinter's Sons Co., Philadelphia, the successful bidders in connection with the sale of the two Philadelphia & Reading Ry. bridges over the Susquehanna River, one at Milton and the other at Sunbury, Penn., will commence to dismantle the superstructures at once.

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Maine—H. D. Eaton, Waterville, interested in Skowhegan & Athens Electric R.R.

Massachusetts—Bay State St. Ry., Boston, will extend line along Varnum Ave. to Totman St. R. S. Goff, Boston, Gen. Mgr.

Pennsylvania—Council, Coatesville, granted H. G. Rambo, H. I. Schotter and W. J. Elliott and associates, Coatesville, franchise to construct railway from Modena to Coatesville, about 10 mi. Noted Aug. 10.

Pennsylvania—Irwin-Herminie Traction Co. plans to extend line from Irwin north to Export. C. H. Bolton, Irwin, Gen. Mgr.

Pennsylvania—McDonald & Burgettstown St. Railway Co., Washington, incorporated to build electric railway in Washington County, about 15 mi. R. L. Henderson, Pittsburgh, interested.

Pennsylvania—Pennsylvania R.R. granted permission by Council, Steelton, to build 5 freight tracks along Old Pennsylvania Canal into Bethlehem Steel plant, including filling old canal and rein.-con. bridge across Spring Creek near Harrisburg. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Pennsylvania—Williamsport Passenger Railway Co., Williamsport, plans to extend line to Newberry. E. H. Davis, Williamsport, Gen. Mgr.

Maryland—Surveys being made for railway to Hawkins Point, several miles below Baltimore on Patapsco River. Address R. N. Beglen, Baltimore, Ch. Engr. Baltimore & Ohio Railroad Co.

Maryland—Cumberland Electric Railway Co., Cumberland, granted franchise by Council to extend line on Green St. G. L. Wellington, Cumberland, Pres. Noted Aug. 24.

Virginia—Blue Ridge Light and Power Co., Staunton, will improve and extend street railway. W. E. Moore & Co., Pittsburgh, Engr. Constr.

West Virginia—Baltimore & Ohio Railroad Co. plans branch from near Grafton to lands recently acquired by Big Run Coal Co. R. N. Beglen, Baltimore, Ch. Engr.

West Virginia—West Virginia Traction and Electric Co. plans to extend line from Wheeling to Morgantown. R. D. Jamison, Wheeling, Gen. Mgr.

South Carolina—Carolina-Southern R.R. incorporated with $30,000 capital stock to build line from Orangeburg south to Estill or some point in Hampton County, about 60 mi. E. N. Mittle, Bowman, and J. L. Dukes, Orangeburg, interested.

Florida—G. M. Langston, Pres South Florida Realty and Bonding Co., Inc., Sebring, interested in motor-operated railway in vicinity of Sebring.

Florida—Bd. Trade, Dade City, interested in railway from Dade City to San Antonio, about 7 mi., to connect with Atlantic Coast Line. Address C. A. Lock, Dade City.

Alabama—Mobile, Volanta & Pensacola R.R., formerly Mobile & Baldwin County R.R., plans extension east from Volanta, Ala., to Pensacola, Fla., about 40 mi. M. H. Miller, Volanta, Gen. Mgr.

Alabama—Montgomery Light and Traction Co., Montgomery, plans line from Montgomery to Wetumpka, provided bridge is built over Tallapoosa River near Hughes Ferry and trolley line permitted to run across it. About $100,000. H. T. Crenshaw, Montgomery, Secy.

Tennessee—Wayne-Hardin R.R. making surveys for line from Collinwood to Savannah, Tenn., about 45 mi. E. H. Steinman, Collinwood, interested. Noted Sept. 7.

Kentucky—Interstate Coal and Lumber Co., Elkins, W. Va., plans narrow-gage railway on Middle Fork and Greasy Creeks in Leslie County, about 12 mi.

Ohio—Cincinnati, Hamilton & Dayton Ry. plans to double-track line north of Troy. F. L. Stuart, Baltimore, Md., Consult. Engr.

Ohio—Cleveland, Cincinnati, Chicago & St. Louis Ry. plans to double-track and otherwise improve line from DeGraff to Houston. C. A. Paquette, Cincinnati, Ch. Engr.

Kansas—Santa Fe Ry. plans line from Caney, Kan., through Pawhuska to Pawnee, Okla. C. F. W. Felt, Chicago, Ch. Engr.

Nebraska—Omaha & Council Bluffs St. Ry. plans line from 24th and O St. to 19th and W St., Omaha. W. A. Smith, Omaha, Gen. Mgr.

Arkansas—Memphis, Dallas & Gulf Railroad Co. plans line from Bingen, near Nashville, to Corinth, about 5 mi. W. P. Hart, Nashville, Ch. Engr.

Texas—Houston & Texas Central R.R. made plans for belt-line railway around Ft. Worth. I. A. Cottingham, Houston, Ch. Engr.

Washington—Methow Valley & Easterly Railway Co. will be incorporated to build line from Pateros up Methow Valley, about 53 mi. J. A. Miller, Bellingham, Secy.

California—Bd. Superv., San Francisco, plans to extend line of Municipal Railway of San Francisco along Army St. from Church to 3rd St. to Hunter's Point. T. A. Cashin, San Francisco, Supt.

Quebec—Canadian Pacific Railway Co. plans to electrify line from Kingston to Renfrew. W. E. Woodhouse, Montreal, Ch. Engr.

Ontario—Sudbury-Copper Cliff Electric Railway Co. will not build proposed extensions at present time, owing to war conditions. J. H. Mackey, Sudbury, Pres. Noted Sept. 14.

Bids In and Contracts Awarded

West Virginia—Hartland Colliery Co., Clarksburg, let contract $5\frac{1}{2}$-mi. standard-gage railway in Clay County to KEITHLEY & HORD, Huntington. J. B. Hart, Clarksburg, Pres. Noted Aug. 31.

Idaho—Oregon-Washington Railroad and Navigation Co. let contract branch from Beaver up Carbon Creek to TWOHY BROS., Portland, about $200,000.

Texas—Houston, Gonzales & San Antonio Interurban Ry. let contract line between Houston and San Antonio to T. D. McAUGHAN. About $600,000. E. Kennedy, Houston, interested. Noted Feb. 10.

LIGHT, HEAT AND POWER

Proposed Work

Mass., Charlton—Newburyport Gas and Electric Co. plans transmission line across Merrimac River to Rings Island to connect with system of Amesbury Electric Light Co.

N. Y., Niagara Falls—International Ry. Co. of Buffalo plans substation at 24th St. and Allen Ave. J. C. Sheldon, Buffalo, Pur. Agt.

N. Y., Niagara Falls—Titanium Alloy Manufacturing Co. soon receives bids for 1- and 2-story, 46x53-ft. boiler house.

N. J., South River—City plans installing gas unit. About $50,000.

Penn., Aldan—Delaware County Electric Co., Lansdowne, to install electric-lighting system in Aldan.

Penn., Bristol—W. J. Steel plans power plant.

Penn., Eddystone—Philadelphia Electric Co. plans substation in Eddystone.

Penn., Philadelphia—Sisters of Mercy Hospital, Cedar Ave., making plans for power house. E. F. Durang & Sons, Arch.

Penn., Waymart—Scranton Electric Co., Scranton, plans to extend transmission lines to Waymart.

Va., Williamsburg—E. H. Clowes and associates, Richmond, granted franchise by Council to construct electric-light plant.

N. C., Madison—City voted $8,000 bonds for electric-light and power system. Noted Mar. 16.

S. C., Camden—City voted $7,000 bonds for electric-light plant. C. H. Yates, Mayor. Noted Aug. 24.

Ga., Damascus—City voted $15,000 bonds for electric-light plant and water system. Noted Sept. 28.

Tenn., Bearden—Colonial Lumber Co. plans electric-light plant. H. D. Wyrick, Mgr.

Ohio, Martins Ferry—City plans to improve electric-light plant.

Ohio, Massillon—City plans electric-light system.

Ohio, Newcomerstown—Town plans electric-light plant.

Ind., Sullivan—Sullivan County Electric Co. making plans for extending its service in Sullivan County. Noted Feb. 3.

Mich., Manistee—Consumers Power Co., Jackson, plans dam on Manistee River to develop about 22,000 hp.

Mich., Pontiac—Detroit Edison Co. applied to City Comn. for permission to build substation, about $75,000.

Ill., DeKalb—DeKalb-Sycamore Electric Co. plans to enlarge power plant.

Ill., Gibson City—See item under "Water-Works."

Wis., Hortonville—Company will be organized to take over holdings of Hortonville Light, Heat and Power Co. and install electric-light plant in Hortonville.

Iowa, Ft. Madison—City making plans for 1-story, 34x44-ft. power house. H. F. Liebbe, State Capitol Bldg., Des Moines, Arch.

Iowa, Iowa Falls—Iowa Falls Heat, Light and Power Co., Iowa Falls, granted franchise to extend transmission lines to Alden.

Kan., Augusta—City voted $10,000 bonds for improving and extending electric-light plant and system. Noted Aug. 17.

Kan., Moran—City voted $12,000 bonds for electric-light plant. W. B. Rollins & Co., 439 Railway Exchange Bldg., Kansas City, Mo., Engr.

Kan., Wichita—Kansas Gas and Electric Co., Wichita, plans to spend about $300,000 for improving its plant and extending its system.

Neb., Beatrice—City making plans for 1-story, 30x32-ft. power house. About $5,500.

Neb., Norfolk—Neb., Tilden—Nebraska Gas and Electric Co. plans to extend transmission line from Tilden to Oakdale, about 10 mi.

N. D., Granville—Bacon & Burr plan to install electric-light plant in Granville.

N. D., Halliday—J. F. Wenrick plans to install electric-light plant.

Tex., Denton—See item under "Water-Works."

Tex., Sweetwater—West Texas Electric Co. plans to enlarge its plant in Sweetwater.

Tex., Wichita Falls—Wichita Falls Electric Co. increased its capital stock from $700,000 to $775,000 and will improve its plant.

Okla., Buffalo—City election Oct. 11 to vote on $15,000 electric-light plant bonds.

Okla., Canton—O. A. Hunt, Watonga, interested in electric-light plant in Canton.

Okla., Woodward—Citizens voted $15,000 bonds for electric-light plant and water system.

Idaho, De Lamar—Electric Investment Co., Boise, plans to extend its transmission line from De Lamar to Jordan Valley.

Calif., Colusa—City plans electric-light plant.

Ont., Petrolia—Union Natural Gas Co. plans 2-mi. high pressure gas line. F. James, Chatham, Mgr.

Bids In and Contracts Awarded

N. Y., Buffalo—Delaware, Lackawanna & Western R.R., 24 Michigan St., let contract power house to F. D. HYDE, 90 West St., New York, about $18,000. Noted Sept. 21.

N. J., Elizabeth—S. L. Moore & Sons Corporation let contract power house to LEVERING & GARRIGUES, 552 West 23rd St., New York.

Md., Baltimore—Consolidated Gas, Electric Light and Power Co., Liberty and Lexington St., let contract for 4-story plant to BENNETT BUILDING CO., 123 South Howard St. Estimated cost, $35,000. Noted Sept. 7.

Ind., Anderson—Remy Electric Co. let contract addition to plant to ESHELMAN & SON, Anderson, $51,000.

Ind., St. Mary's City—St. Mary's of the Woods Girl's School let contract 1-story boiler house and engine room to M. J. HOFFMAN CONSTRUCTION CO., Evansville, Ind.

Minn., Hoffman—City let contract electric transmission line to STERLING ELECTRIC CO., 33 South 5th St., Minneapolis. About $10,000. Noted Sept. 24.

Minn., Holt—City let contract electric-light and power plant to H. J. OLSEN, Warren.

S. D., Mitchell—Mitchell Power Co., 110 3rd Ave., let contract 1-story power plant to A. J. KINGS & SON.

Ore., Riddle—See item under "Water-Works."

BRIDGES

Proposed Work

Mass., Salem—City making plans for rein.-con. bridge over canal on Washington St. J. R. Worcester & Co., 79 Milk St., Boston, Engr.

N. Y., Andover—State Highway Dept., 55 Lancaster St., Albany, making plans for bridge in Allegheny County, about $5,000. H. Craig, Canaseraga, Supt. Highways Allegheny County.

N. Y., Buffalo—(Official)—Comr. Pub. Wks. receiving bids Oct. 17 for reconstruction, renewal and protection of viaducts on several streets of city. G. H. Norton, City Engr. (See adv.)

N. Y., Dansville—Steuben County soon receives bids for steel bridge, about $10,000. C. E. Bower, Sansville, Supt. Highways.

N. J., Cranbury—Bd. Chosen Freeholders, Middlesex County, New Brunswick, receiving bids Oct. 9 for King Rod truss bridge over Cranbury Brook. A. Bissett, Clk.

N. J., Jersey City—Comrs. plan to repair 13th St. Viaduct, about $32,000. C. A. Van Keuren, City Engr.

N. J., Jersey City—Bd. Freeholders Hudson County receiving bids Oct. 11 for steel bridge with concrete retaining wall at Woodcliff, North Bergen. W. O'Mara, Court House, Jersey City, Clk.

Penn., Chester—Delaware County plans rein.-con. bridge over Chester Creek on Kerlin St. between Chester and Upland. J. S. Rogers, Media, Clk.

Penn., Erie—City receives bids about Nov. 1 for rein.-con. culvert on Garrison Run, about $900,000. Gannett, Sellye & Fleming, Telegraph Bldg., Harrisburg, Engr. Noted June 15.

Penn., Harrisburg—Dauphin County plans bridge across Paxton Creek.

Penn., Philadelphia—See item under "Streets and Roads."

Penn., Pottstown—Pennsylvania R.R. to build 6-span rein.-con. slab bridge over Manatawny Creek. A. C. Shand, Broad St. Sta., Philadelphia, Ch. Engr.

Penn., Uniontown—Fayette County plans passenger bridge over Monongahela River between Fayette City and Allenport. About $200,000. Address County Clk., Uniontown.

Penn., Womelsdorf—Womelsdorf, Richmond & Meyerstown St. Railway Co. plans bridge over Lebanon Branch of Philadelphia & Reading Ry. R. J. Lawrence, 525 East Gates St., Philadelphia, Ch. Engr.

W. Va., Man—Chesapeake & Ohio Railway Co. plans bridge from Man to Gilbert. F. I. Cabell, Ch. Engr.

Ga., Calhoun—Bd. Comrs. Rds. and Revenues of Gordon County receiving bids Oct. 11 for bridge over Cossawattee River, near Reel's Ferry, about $5,000. Address Clk., Calhoun. Noted July 27.

Ga., Folkston—Charlton County Comrs. receiving bids Oct. 20 for concrete bridge across St. Marys River. Noted May 18

Bridges (Continued)

Fla., Cortez—J. R. Jones, Tampa, is head of company which plans bridge between Cortez and Anna Maria Key, about ⅞ mi. long.

Fla., Jacksonville—Duval County soon votes on $750,000 bonds for bridge across St. Johns River. Harrington, Howard & Ash, Kansas City, Mo., Engr. Noted Aug. 17.

Fla., Tallahassee—Leon County Comrs. receiving bids Oct. 10 for 330 lin.ft. frame bent and 175 ft. pile bent bridges in connection with 55 mi. road work. J. C. Moore, Tallahassee, Chn.

Fla., Tarpon Springs—Pinellas County rejected bids for bridge over Anclote River. New bids. Address County Clk., Clearwater.

Ala., Montgomery—Montgomery County election Oct. 1 to vote on $50,000 bonds for bridge over Tallapoosa River between Montgomery and Elmore Counties. Address County Clk., Montgomery. Noted Sept. 14.

Ala., Montgomery—Louisville & Nashville R.R. plans concrete bridge at Bell St. W. H. Courtney, Louisville, Ch. Engr.

Miss., Batesville—Bd. Superv. Panola County receiving bids Oct. 9 for steel approaches, stringers and floor on main span of iron bridge over Tallahatchie River, at Old Panola. M. W. Roberson, Batesville, Clk.

Miss., De Kalb—Superv. Kemper County Highway Comn. of Dist. No. 1 receiving bids Oct. 11 for 100 cement and concrete bridges. Snowden & Hauser, Jackson, Engr.

Ohio, Covington—Miami County plans bridges over Stillwater River at Covington, about $18,000. O. C. N. Peters, Troy, Audr. L. F. Knopp, Court House, Troy, Engr.

Ohio, Galion—Crawford County plans bridge on Gill St. O. H. Biebenhauser, Bucyrus, Audr. H. Keller, Court House, Bucyrus, Engr.

Ohio, Troy—Miami County plans $18,000 bond issue for bridge over Stillwater River. Address County Clk., Troy. Noted Aug. 24.

Ohio, Youngstown—City making plans for steel bridge over Cedar St. Viaduct, about 700 ft. long. F. Lillie, City Engr.

Ind., Elkhart—Elkhart County receiving bids Oct. 3 for concrete bridge on Crawford St., about $15,000. Address County Clk., Elkhart.

Ind., South Bend—(Official)—Comrs. St. Joseph and Elkhart Counties, Court House, South Bend, receiving bids Oct. 16 for flat top "I" beam bridge over Bango Creek on county line. A. F. Wolf, South Bend, Audr. St. Joseph County.

Ind., Terre Haute—Vigo County receives bids about Oct. 15 90-ft. rein.-con. bridge in Riley Township. T. Ferguson, Terre Haute, Audr. H. C. Anderson, Court House, Engr.

Mich., Benton Harbor—City receiving bids Oct. 22 for steel viaduct.

Ill., Pekin—City plans bridge across Illinois River. About $100,000.

Iowa, Des Moines—City soon receives bids for bridge over Des Moines River on Grand Ave. K. Kastberg, City Engr. Noted May 11.

Minn., Mound Prairie—City receiving bids Oct. 7 for 80-ft. steel bridge over Root River.

Minn., St. Paul—City plans viaduct on Hamline Ave., about $60,000. O. Claussen, City Engr.

Kan., Emporia—Lyon County plans 60-ft. rein.-con. bridge over Elm Creek, Waterloo Township. H. A. Osborn, Emporia, Clk.

Kan., Topeka—Shawnee County receiving bids Oct. 30 for 3 rein.-con. Luten arch bridges over Indian Vassar and Deer Creeks. About $5,000 each. W. J. Arnold, Topeka, Engr.

S. D., Mitchell—Davidson County plans expenditure of $20,000 for bridges. J. M. Crampton, Mitchell, Audr.

Mont., Miles City—Custer County plans 60-ft. steel bridge over Fallon Creek. Address County Clk., Miles City.

Tex., Ft. Worth—City receiving bids Oct. 10 for Allen Ave. Viaduct, about 1,100 ft. long and 32 ft. wide, rein.-con. F. J. Von Zuben, City Engr. Noted Sept. 7.

Okla., Oklahoma—Oklahoma County making plans for 15 bridges, about $30,000. H. Adams, Oklahoma, County Engr.

Wash., Walla Walla—Walla Walla County election Nov. 7 to vote on $25,000 bonds for bridge over Snake River between Walla Walla and Franklin Counties. Franklin County will also vote $25,000 bonds for same. C. E. Fowler, Seattle Bldg., Seattle, Engr.

Calif., Eureka—Humboldt County receiving bids Oct. 10 for bridge over Ehman Creek. F. M. Kay, Eureka, Clk. Bd. Superv.

Calif., Sacramento—Sacramento County receiving bids Oct. 9 for 2 rein.-con. bridges, 1 on Marysville Rd. and 1 on Marconi Ave. E. F. Pfund, Sacramento, County Clk.

Calif., San Anselmo—Town Trustees soon receive bids for bridge at Lansdale, about $13,000.

Calif., Ventura—Ventura County receiving bids Oct. 14 for 120-ft. bridge over San Antonio Creek on Ojai Ave. J. B. McCloskey, Ventura, Clk.

Ont., Peterboro—Ry. Com. of Council approved plans for foot bridge across Otonabee River, about $5,000. Noted June 22.

Bids In and Contracts Awarded

N. J., Atlantic City—Atlantic County let contract bridge to G. HANDELMAN, Cologne, about $10,000.

N. J., Newark—Bd. St. and Water Comrs. let contract 3 pile bridges over tracks of Delaware, Lackawanna & Western R.R. on Clifton Ave. and 5th and North 6th St. to HAY FOUNDRY AND IRON WORKS, Plum Point Lane, about $5,352.

N. J., Newark—Low bidders bridge over tracks of Central R.R. of New Jersey on Port St. were: Averill-Matthews Co., Essex Bldg., $60,328; Holbrook, Cabot & Rollins Corporation, New York, $66,211; Linde & Griffith Co., Newark, $67,973. M. R. Sherrard, City Engr. Noted Sept. 14.

Penn., Carbondale—Delaware & Hudson R.R. let contract viaduct on Dundaff St. to PHOENIX BRIDGE CO., Phoenixville, about $50,000.

Penn., Gratztown—Westmoreland County let contract bridge over Big Sewickley Creek to R. GALLIARDI, Connellsville, about $9,058.

Penn., Indiana—(Official)—Indiana County let contract bridge over Lick Creek to WHITTAKER & DIEHL, Harrisburg, $10,419. Noted Sept. 21.

Penn., Norristown—Montgomery County let contract bridge over Swamp Creek to W. DERR, about $4,000.

Penn., Simpson—Delaware & Hudson Co., New York, Ontario & Western Railroad Co., Erie R.R. and Scranton Railroad Co. let contract substructure for 850-ft. viaduct at Simpson to E. WHALON, Towando. About $70,000. Noted Apr. 27.

Md., Baltimore—State Roads Comn. let contract concrete bridge over Western Run, York Rd. to B. H. MAYS, Glencoe. About $9,264.

Va., Narrows—Giles County Comrs. let contract bridge across New River to CHAMPION BRIDGE CO., Wilmington. About $30,000.

W. Va., Fairmont—City let contract Parker Run Bridge to COLE BROS. CONSTRUCTION CO., Morgantown, about $12,450.

W. Va., Franklin—(Official)—Pendleton County let contract bridge across South Branch to FARRIS BRIDGE CO., Charleston, about $5,900. Noted Sept. 14.

Fla., Cocoa—Brevard County, Titusville, let contracts bridge over Indian River between Cocoa and Merritt Island to CONVERSE BRIDGE CO., Chattanooga, engine and 2 steel draw openings; T. C. DAWKINS, Jacksonville, timber piles and concrete work. Noted Aug. 31.

Fla., Ft. Lauderdale—Dade County let contract steel highway draw bridge over New River Sound connecting Ft. Lauderdale and Ocean Beach to CHAMPION BRIDGE CO., Wilmington, Ohio, $6,450; timber trestle at same location, NEWLAND & OLSSEN, Ft. Lauderdale, $4,828.

Ohio, Cincinnati—Hamilton County let contracts bridges as follows: ARPP-SIMPSON CO, Middletown, bridge over Four Mile Creek, Milford Township, $8,952; W. M. DAVIS, bridge over Four Mile Creek at Manrid Farm, $8,348. Noted Mar. 16.

Ohio, Cincinnati—Hamilton County let contract bridge over Seven Mile Creek near Somerville to ARPP-SIMPSON CO., Middletown, $14,886. Noted Mar. 16.

Ohio, Dayton—Montgomery County let contract substructure Upper Union Bridge No. 76, Randolph Township, to E. E. FAUVER, 171 South Potomac St. Noted July 13.

Ohio, Medina—Medina County let contract bridge in Medina Township, substructure to EINHART & LEAVETTE, Medina, superstructure to C. W. DANIELS & SONS, Lodi. Noted Aug. 31.

Mich., Detroit—City let contract bridge over Charleroi and Fox Creek to T. E. CUTTIE, 29 McGraw Bldg., about $6,950.

Mich., Houghton—County let contract rein.-con. bridge over Houghton Douglas Creek on Cemetery Rd. to LeCLERE & DION.

Ill., Chicago—Cook County let contract Brookfield Bridge, Riverside Township, to REPPERT CONSTRUCTION CO., Melrose Park, about $12,556.

Ill., Pittsfield—(Official)—Pike County let contract bridge Pleasant Vale Township to G. GRIFFITHS, JR., 428 Odd Fellows Bldg., about $9,343. Noted Sept. 14.

Iowa, Council Bluffs—County rejected bids for highway bridge at Macedonia.

Iowa, Council Bluffs—Bids received for North First St. Bridge from C. C. Norgaard & Son, $9,709, labor and material; P. Peterson, $8,850, bridge proper, extras for excavation and fill; Wickham & Co., $5,885 bridge with extras for excavation, fill, concrete and reinforcing material; J. Saguin, $7,800 labor and material except filling necessary.

Minn., Faribault—City let contract bridge at Sheffield King Mill to R. R. THOMAS, Faribault, about $4,488. Noted Sept. 7.

Kan., Kansas City—Harrington, Howard & Ash, Engr., Orear Leslie Bldg., submitted report estimating cost of viaduct on 7th St., about 1,900 ft. long at $25,000.

Neb., Fremont—Dodge County let contract bridge work for 1 year to STANDARD BRIDGE CO., Omaha. Noted Sept. 14.

S. D., Yankton—Yankton County let contract bridge over Rhine Creek on Capitol St. to ELLERMAN-McLAIN CONSTRUCTION CO., about $6,950.

N. D., Westhope—City let contract bridge between Sergius and Eidsvold Townships to HENNEPIN BRIDGE CO., 922 Laurel Ave., Minneapolis, about $19,350.

Mont., Missoula—City let contract bridge over Hell Gate River to O. E. PEPPARD, Missoula, about $5,040.

Mo., Kansas City—Kansas City Southern R.R. let contract viaduct on College Ave. to R. W. WADDELL, 3212 Central St. Noted July 20.

Mo., Kansas City—(Official)—Low bidders arch bridge over Brush Creek on Troost Ave. were Fox-Redpath Construction Co., $16,676; M. Carroll Co., $18,523; Kansas City Construction Co., $21,059. C. Hill, City Engr. Noted Sept. 14.

Mo., Kansas City—(Official)—Low bidders bridge over McGee St. Trafficway on 26th St. were Fox-Redpath Construction Co., $13,132; Kansas City Construction Co., $14,398; M. Carroll Co., $14,446. C. Hill, City Engr. Noted Sept. 14.

Mo., Kansas City—(Official)—Low bidders bridge over Wyandotte St. on 31st St. were M. Carroll Co., $11,363; Kansas City Construction Co., $11,906; G. W. Goodlander, $12,503. Noted Sept. 14.

Mo., Kansas City—(Official)—Low bidders Culvert on 51st St. near Indiana Ave. were M. Walsh, $5,526; Kansas City Construction Co., $5,818; Midland Bridge Co., $6,141. C. Hill, City Engr. Noted Sept. 14.

Mo., Louisiana—Council let contract bridge over Noix Creek to UNION BRIDGE AND CONSTRUCTION CO., 903 Sharp Bldg., Kansas City, about $8,890. Noted Sept. 28.

Ark., Corning—Clay County Comrs. let contract bridge over Black River to VINCENNES BRIDGE CO., Vincennes, Ind., about $19,000. Noted Aug. 31.

Tex., Cleburne—Council awarded contract for bridge on West Willingham St. to MISSOURI VALLEY BRIDGE AND IRON CO.

Tex., Riverside—Trinity County let contract bridge over Trinity River at Riverside to MIDLAND BRIDGE CO., Kansas City, Mo., about $30,000. Noted June 29.

Okla., Cherokee—Alfalfa County let contract 6 bridges to KANSAS CITY BRIDGE CO., 510 Orear-Leslie Bldg., Kansas City, Mo.

Okla., Eufaula—State Highway Dept., Oklahoma, let contract concrete bridges in McIntosh County to OKLAHOMA BRIDGE CO., Patterson Bldg., Oklahoma, about $5,345. Noted Sept. 14.

Okla., Lehigh—Cole County rejected bids for 5 bridges.

Okla., Medford—Grant County let contract 10 bridges to CANTON BRIDGE CO., New York Life Bldg., Kansas City, Mo., $15,450.

Ore., Baker—Baker County let contract 10 bridges to COAST BRIDGE CO., Portland, about $12,000. Noted Aug. 3.

Calif., Oakland—(Official)—County let contract bridge in Eden Rd. Township to W. E. FERNANDEZ, Haywood. Noted Sept. 7.

Calif., San Diego—City to rebuild 39th St. bridge by day labor. About $5,000. Noted June 22.

Calif., Ventura—Ventura County let contract west extension of Montalvo Bridge to W. M. LEDBETTER & CO., Pacific Electric Bldg., Los Angeles, $5,479.

Que., Montreal—City let contract La Salle Bridge over Lachine Canal to T. O'SULLIVAN, about $209,221. Noted June 15.

Ont., Wainfleet—Town rejected bids for 7 concrete bridges. Work to be done by day labor.

B. C., Mission City—Council let contract new bridge at Law Slough to J. HARPER and E. CONLEY.

WATER-WORKS

Proposed Work

Mass., Braintree—Town receiving bids Oct. 9 for c.-i. pipe and hydrants in Union St. W. E. Maybury, Supt.

N. Y., Ft. Ann—City plans election to vote on proposition to install water system.

N. Y., Herkimer—Taxpayers plan election about Oct 13 to vote on appropriation of $350,000 for water system. R. F. Horton, 57 North Pine Ave., Albany, Engr.

N. J., Lincoln Park—Lincoln Park Water Co. plans water-works. F. N. Johnson, interested.

Penn., McDonald—Borough plans water system, about $10,000. Douglass & McKnight, Union Bank Bldg., Pittsburgh, Engr.

Penn., Montour—Pittsburgh Coal Co., Oliver Bldg., Pittsburgh, plans filtration plant at Montour. E. J. Taylor, Oliver Bldg., Pittsburgh, Engr.

Penn., Philadelphia—Dept. Pub. Wks. plans to extend water mains in Wyoming Ave. Dist., install new pumping machinery and new repair and maintenance plants. About $500,000. G. T. Datesman, Dir. A. J. Fuller, Supt.

Penn., Phillipsburg—Citizens Water Co. making preliminary plans for reservoir, about $40,000. H. B. Scott, Mgr. M. Knowles, Oliver Bldg., Pittsburgh, Engr. Noted Sept. 14.

Penn., Waynesboro—Waynesboro Water Co. making plans for reservoir and pipe line. J. P. Funk, 6 North Church St., Supt. M. Knowles, Oliver Bldg., Pittsburgh, Engr. Noted Sept. 14.

Water-Works (Continued)

Va., Norfolk—City plans water mains in Plume, Church, Yarmouth, 28th and other streets. About $21,192. C. H. Bliven, Supt.

Va., Williamsburg—City making plans for extending water and sewer systems in Delta Park, about $18,000. Bolton, Clark & Pratt, 8th and Main St., Engr.

Ga., Damascus—See item under "Light, Heat and Power."

Miss., Marks—Citizens voted $25,000 bonds for water-works and sewers. M. P. Lowery, Mayor.

Miss., Meridian—City Council voted $4,000 water bonds. M. L. Worrell, Supt.

Miss., Merrigold—See item under "Sewers."

La., Crowley—City making plans for well and reservoir. W. C. Rose, Supt.

Tenn., Rogersville—City receiving bids Oct. 10 for water and sewer systems. J. N. Ambler, Winston-Salem, N. C., Engr. Noted Sept. 21.

Ky., Georgetown—City to vote Nov. 7 for $100,000 water and electric-light bonds. S. L. Allen, Supt.

Ohio, Akron—City plans water meters. About $40,000. H. H. Frost, Supt.

Ohio, Akron—City plans $300,000 bond issue for water system. H. H. Frost, Supt. Noted Aug. 17.

Ohio, Alliance—City plans to spend about $20,000 for water meters. L. A. Tonkle, Supt.

Ohio, Alliance—City plans enlarging pumping station. L. A. Tonkle, Supt.

Ohio, Cincinnati—City receiving bids Nov. 2 for $100,000 bonds for high-pressure fire mains. A. D. Blackmore, Supt. Noted May 11.

Ohio, Piqua—Council adopted resolution authorizing $380,000 bond issue for water system. W. Zimmerman, Supt. Noted May 25.

Ohio, Ravenna—City passed ordinance for water system. John S. Mallette, Supt.

Ohio, St. Bernard—City plans water softening plant. E. C. Heller, Supt.

Ohio, Troy—(Official)—Council receives bids about Dec. 1 for 1,000 water meters. L. A. Pool, Supt. Noted Sept. 21.

Ohio, Westerville—City plans to spend about $20,000 for improving water system. Richards Enginering Co., 37½ Long St., Columbus, and Herring & Gregory, New York, Consult. Engrs.

Mich., Flint—City soon to receive bids for purchase of $400,000 water bonds. W. L. Fisher, Supt.

Mich., Petoskey—City making plans for improving water-works. J. W. Lovelace, Supt. Fargo Engineering Co., 226-28 West Main St., Jackson, Engr.

Ill., Galesburg—Council passed ordinance for water main in portion 3d St. T. H. Snowball, Supt.

Ill., Gibson City—City plans election to vote on $31,000 bonds for water system and electric-light plant. Noted June 22.

Wis., Osceola—Village soon receives bids for water system, about $25,000. F. D. Staples, Clk. Noted Aug. 24.

Wis., Chilton—City receives bids Oct. 11 for artesian well, 100,000 gal. concrete reservoir, mains, hydrants, pumping station, etc. About $45,000 bonds voted. J. Pfeffer, City Clk.

Wis., Oshkosh—Bd. Pub. Wks. receiving bids Oct. 11 for water tower and filter plant.

Wis., Portage—City soon receives bids for filter plant. About $30,000. L. P. Wolff, 1000 Germania Bldg., Engr. Noted Sept. 7.

Iowa, Coin—Citizens sold $12,000 water-works bonds. Noted Aug. 3.

Iowa, Hampton—City plans to lay about 12 blocks new water mains. L. Talham, Supt.

Iowa, Osage—Citizens voted $4,000 water bonds.

Iowa, Riceville—City sold $4,000 water-works bonds. H. A. Yager, Clk. Noted Aug. 31.

Minn., Chaska—City sold $15,000 water-works bonds. Noted June 8.

Minn., Pine River—City plans to lay about 5 blocks water main and install pumping station.

Minn., Plainview—Village making plans for water-works. J. F. Druar, 312 Commercial Bldg., St. Paul, Consult. Engr.

Minn., West St. Paul—(St. Paul post office)—City receiving bids Oct. 10 for water system. F. Youngerbauer, City Clk. J. F. Druar, 312 Commercial Bldg., St. Paul, Engr. Noted Sept. 21.

Kan., Pawnee Rock—City plans water system.

Neb., Loup City—City plans to install water system.

S. D., Alcester—City plans to extend water mains about 14 blocks. A. A. Treick, Audr.

S. D., Hitchcock—City soon lets contract water-works. Noted June 15.

S. D., Milbank—City election Oct. 30 to vote on $12,000 filter plant bonds. Noted Feb. 24.

Mont., Havre—City plans 2 reservoirs.

Mo., Paris—(Official)—City receiving bids Oct. 6 for filter plant. About $12,500. G. B. Blakey, Supt. Noted Sept. 7.

Ark., Batesville—City plans filter plant at water-works. W. H. Walkup, Supt.

Ark., Star City—City plans water system.

Tex., Denton—City plans to improve water system and electric-light plant. W. J. Grady, Supt.

Tex., Ft. Worth—City Comn. to extend water mains along Arlington Heights Blvd. L. H. Blanke, Supt.

Okla., Buffalo—City election Oct. 11 to vote on $15,000 water-works bonds.

Okla., Canby—Citizens voted $18,000 water-works bonds.

Okla., Checotah—City plans bond issue for improving water-works. J. E Harding, Supt.

Okla., Duncan—City plans election to vote on $6,000 water-works bonds. E. W. Mitchell, City Clk. Noted May 25.

Okla., Okmulgee—Citizens voted $25,000 water-works bonds. M. N. Coles, City Engr. Noted Sept. 28.

Okla., Pawhuska—City election Oct. 12 to vote on $18,000 water-works bonds. J. M. Buckbey, City Engr.

Idaho, Mackay—Idaho Improvement Co. plans to spend about $13,500 for improving and extending water system. H. H. Weilus, Pres.

Utah, Ephrian—(Official)—Citizens voted $15,000 water-works bonds. F. Y. Jensen, Supt. Noted Sept. 21.

Utah, Garland—City voted $38,000 water-works bonds. Noted Sept. 28.

Utah, Newton—City voted $12,500 bonds for water system.

Wash., Seattle—City soon lets contract water mains in Rainier Ave. L. B. Young, Supt.

Wash., Seattle—City plans water mains and sewers in Terry and Borden Ave. About $14,417. C. B. Bagley, Secy. Bd. Pub. Wks.

Wash., Seattle—City votes in November on $3,000,000 bonds for 3d pipe line and acquisition of lands surrounding Swan Lake to create impounding reservoir for water system.

Ore., John Day—City plans water system, about $10,000.

Ore., Riddle—Citizens voted $21,000 bonds for water and electric-light systems.

Calif., Bairdstown—Citizens voted $200,000 bonds for distributing system. W. Mulholland, Knickerbocker Bldg., Ch. Engr. Bd. Pub. Ser. Comn. Noted July 27.

Calif., San Diego—City plans election to vote on bonds for pipe line from Otay dam site to Bonita "Y." H. R. Fay, Supt. Noted Aug. 3.

Ont., Guelph—F. McArthur, City Engr., recommended repairing water pipe line, about $75,000. A. H. Foster, Mgr.

Ont., Kingsville—Council plans to replace water main on Lakeview Ave. with larger one. G. Gearse, Clk.

Ont., Niagara Falls—City plans to extend water mains and replace wooden pipes. W. C. Jepson, City Engr.

Bids In and Contracts Awarded

Maine, Augusta—Kennebec Water Dist. let contract 20,000,000-gal. reservoir to J. KERR, Rumford. W. W. Albee, Supt.

Conn., Derby—Derby Water Co. let contract storage dam to SPERRY ENGINEERING CO., 82 Church St., New Haven.

N. Y., Elmira—Water Bd. let contract relining interior walls of high pressure reservoir on West Hill let to REID-WAPLES CO., Philadelphia, $5,600.

N. Y., Mt. Pleasant—City let contract water system to F. C. LEWIS, 411 Manhattan Ave., New York.

N. Y., New York—W. HEYMAN, 383 East 157th St., Bronx, at $38,320, awarded contract grouting rock above Eastview Tunnel of Catskill Aqueduct. Noted Sept. 28.

Ky., Louisville—R. E. Wathen & Co. let contract drilling 12-in. rock and gravel well to C. KRAUSS & SONS.

Ohio, Cincinnati—Bd. Control let contract pipe for high pressure water service let to U. S. CAST IRON PIPE AND FOUNDRY CO., Addyston, $32,650.

Ohio, West Park—City rejected bids received Sept. 19 for water mains. About $6,000. D. W. Nichols, Clk. Noted Aug. 24.

Kan., Neodesha—(Official)—City will improve and extend water system by day labor. C. W. Care, City Engr. C. M. Kimball, Supt. Noted Aug. 3.

N. D., Marmarth—City let contract water system to SECURITY BRIDGE CO., Billings, Mont., about $18,000.

Mont., Sheridan—City let contract water system to H. HAYDEN, about $20,883.

Calif., Los Angeles—City let contracts riveted steel water pipe for Municipal Improvement Dist. No. 2, San Fernando Valley, to LOS ANGELES MANUFACTURING CO., 2500 Leonard, $10,123 for 8,412 ft. 14-in. pipe, and to U. S. METAL PRODUCTS CO., Pittsburgh, $59,530 for 61,398 ft. 12-in., and $48,271 for 92,666 ft. 8-in. Noted Sept. 28.

Calif., Pasadena—(Official)—City to install 1 mi. 8- and 10-in. c.-i. water main in Glenarm St. by day labor. Noted Sept. 14.

SEWERS

Proposed Work

N. Y., New York—(Manhattan)—(Official)—M. M. Marks, Borough Pres., Municipal Bldg., receiving bids Oct. 9 for sewers in 172d and 43d St.

N. Y., New York—(Manhattan)—(Official)—M. M. Marks, Borough Pres., Municipal Bldg., receiving bids Oct. 9 for tunnel relief sewer in 46th St. from Hudson River to 7th Ave. Noted Sept. 14.

N. Y., Rome—Bd. Pub. Wks. plans to extend sewers in Expence and William St. J. P. Plunkett, City Engr.

N. J., Elizabeth—City plans sewers in Amity St. T. E. Collins, City Engr.

N. J., Hopewell—City plans sewer system and disposal plant.

N. J., Linden—City plans bond issue for sewer in St. George and Greater Elizabeth Sections.

N. J., Ridgewood—Bd. Comrs. receiving bids Oct. 10 for sanitary sewers in Lincoln and West End Ave., Grand View and McKinley Pl. F. W. Simonds, Engr.

Penn., New Cumberland—Borough Engineer making surveys for 30-in. pipe sewer in 4th St.

Penn., Waynesboro—City votes Nov. 7 on $28,000 bonds for sewers. Noted July 13.

Penn., Wilkes-Barre—City retained A. Potter, Engr., 50 Church St., New York, to make plans for sewage-disposal plant. B. K. Finch, City Engr.

Penn., Williamsport—See item under "Streets and Roads."

Va., Norfolk—Bd. Control receiving bids Oct. 12 for sewers. H. H. Taylor, Jr., City Engr. Noted Sept. 21.

Va., Williamsburg—See item under "Water-Works."

W. Va., Pennsboro—City voted bonds for sewers. J. B. Yates, City Clk.

N. C., Tarboro—City receiving bids Oct. 17 for 5 mi. 8- to 12-in. sewers. W. M. Platt, Durham, Engr.

S. C., Greenville—(Official)—City voted $25,000 bonds for sewers. W. F. B. Haynesworth, City Engr. Noted Sept. 14.

Ga., Cairo—City votes Oct. 31 on $28,000 bonds for sewer system.

Fla., West Palm Beach—City voted $14,000 bonds for sewers.

Ala., Birmingham—City soon receives bids for 9,000 ft. sanitary sewer in Village Creek branch of Jefferson County trunk sewer.

Miss., Marks—See item under "Water-Works."

Tenn., Rogersville—See item under "Water-Works."

Ky., Lexington—City plans north side storm sewer. About $25,000. J. W. Guyn, City Engr.

Ky., Louisville—City plans north side storm sewer. About $25,000. D. R. Lyman, City Engr.

Ohio, Akron—City plans $636,000 bond issue for storm and sanitary sewers. J. A. Gehrea, City Engr.

Ohio, Greenville—City soon receives bids for storm sewer Dist. No. 1, Tiffin St., about $60,000. R. Horn, Engr.

Ohio, Kirkersville—Bd. Education receiving bids Oct. 13 for sewers and disposal plant. S. R. Reelhorn, Clk. Bd. Education.

Ohio, Lima—City votes in November on $500,000 bonds for improving storm sewers. C. Bryson, City Engr.

Ohio, Marion—City to install sewer in Cheney Ave. H. H. Noyes, City Engr.

Ohio, Wilmington—City plans sewers and disposal plant. About $50,000.

Ohio, Youngstown—City making plans for 1½ mi. 24- to 39-in. pipe sewer in Pine Hollow Dist. F. M. Lillie, City Engr. Noted Mar. 16.

Ill., Decatur—P. T. Hicks, Consult. Engr., estimates cost of sewer from Broadway to mouth of 7th Ward sewer at $100,000.

Ill., Granite City—J. Walbridge, Granite City, soon receives bids for 8,000 to 15,000 ft. of 3- to 6-in. concrete sewer.

Ill., Rock Island—City plans to purchase sewage pump, 5,000,000 gal. capacity, for Fifth Ave. Pumping Station. W. Treichler, City Engr.

Wis., Superior—City soon receives bids for sewers at Billings Park. E. B. Bankes, City Engr.

Iowa, Dayton—City soon receives bids for sewer. K. C. Gaynor, 506 United Bank Bldg., Sioux City, Engr.

Iowa, Logan—City receiving bids Oct. 9 for sewers. About $20,000. Bruce & Standeven, Omaha, Engr.

Iowa, Winterset—City making plans for sanitary sewer and disposal plant, about $150,000. Stevens & Stiles, 222 Commerce Bldg., Kansas City, Mo., Engr.

Kan., Garden City—(Official)—City receiving bids Oct. 13 (extension of date) for sanitary sewer system. About $50,000. Ruckel Engineering Co., First National Bank Bldg., Hutchinson, Engr. Noted Sept. 14.

Neb., Kearney—(Official)—City defeated proposition to issue $50,000 sewer bonds. J. N. Hartzell, City Clk. Noted Sept. 21.

Sewers (Continued)

Neb., Stanton—City receiving bids Oct. 9 for sewers in Dist. No. 3. W. T. McFarland, City Clk.

Ark., Dardanelle—City plans sewer system. C. D. Singer, City Comr.

Tex., Coleman—City election Oct. 16 to vote on $25,000 sewer bonds, $4,000 to purchase present privately owned plant and $11,000 to extend same. H. E. Elrod, Southwestern Life Bldg., Dallas, Consult. Engr. Noted June 8.

Tex., Laredo—City plans to install sewer system. E. J. Foster, City Engr.

Tex., Palacios—City plans to install sewer system.

Tex., Quanah—(Official)—City retained H. E. Elrod, Dallas, to make plans for sewer system and disposal plant.

Tex., Seymour—(Official)—City retained H. E. Elrod, Dallas, to make plans for sewer system and disposal plant.

Okla., Davis—City defeated $30,000 bond issue for sewers. Noted June 15.

Wash., Seattle—See item under "Water-Works."

Calif., Oakland—City receiving bids Oct. 11 for sewer in Whittle Ave. P. F. Brown, City Engr.

Calif., San Diego—City plans sewer system. G. Cromwell, City Engr.

Ont., Belleville—City plans storm sewer from Charles to Pinnacle St. About $7,620. J. W. Evans, City Engr.

Ont., London—City plans sewers in Rattle and Salisbury St. and Euclid Ave. About $9,344. S. Baker, City Clk.

Bids In and Contracts Awarded

Conn., New Haven—City let contract Blake St. sewer to T. F. MAHER, New Haven, $9,499.

Conn., New Haven—(Westville)—City let contract section sewer system to DWYER & MANNIX, 335 Dixwell Ave., $20,085.

Conn., Waterbury—City let contract sewers in Ives and Wood St. to BARBARA & D'AURIO, 63 Bank St.

N. Y., Thiells—Contract sewers let to C. DYKINS, JR., Stony Point, $5,700. Noted July 13.

N. J., Bogota—City let contract sewer system to R. F. RELLEY, Oswego, $21,000. Noted Sept. 28.

N. J., Edgewater—City let contract Sewer Outlet No. 11 to JOHN J. McGARRY, $114,527. Noted Aug. 3.

N. J., Fairview—Borough let contract sewers to BERGEN CONTRACTING CO., Cliffside Park, 6th St., $7,090, Kamena Ave., $6,800; F. BAGAGLIA, 4th St., $6,392.

Md., Highlandtown — (Official) — Baltimore County to build 2 intercepting storm water drains in Highlandtown by day labor. W. G. Sucro, Towson, County Roads Engr. Noted Sept. 21.

Miss., Merigold—City let contract sanitary sewers and water mains to U. S. SANITARY SEPTIC TANK CO. About $15,000.

Ohio, Cleveland—See item under "Streets and Roads."

Ohio, Jewett—See item under "Streets and Roads."

Ohio, Zanesville—Pub. Ser. Dir. let contract sewer in Eppley Ave. to C. K. SMITH, Zanesville. Noted May 18.

Ind., Peru—City let contract extending Broadway sewer to C. J. BURKE, Peru.

Ind., South Bend—City let contract sewers in Home and Studebaker St. to REESE & CARTER. F. J. Anderson, City Engr.

Mich., Ann Arbor—City let contract sanitary sewers to C. L. SCHNEIDER, Ann Arbor, $21,000.

Ill., Evanston—City let contract intercepting sewer, Contract No. 1, to NASH-DOWDLE CO., 29 South La Salle St., Chicago. Noted July 27.

Ill., Harvey—City let contract sewers in various streets to C. M. PORTER, 111 West Washington St., Chicago, about $5,000.

Ill., Sandwich—City rejected bids for storm sewers, about $60,000. Work will probably be done by day labor. Noted Aug. 31.

Ill., Springfield—Bd. Local Impvts. let contract sewers in Reservoir St. to J. O. PATERSON, 833 South Glenwood Ave.; 9th St. to F. BURKE, 2404 South 9th St.

Iowa, Fredericksburg—City let contract 2½ mi. main lateral sewers and disposal plant to MOORE SIEG CONSTRUCTION CO., Waterloo. About $25,000.

Minn., Mora—City let contract sewer system to SCHEUTH & JACKSON, Sioux City.

Minn., Winona—City let contract sewers in Olmstead St. to R. B. McKINNEY and G. HEFTMANN.

Neb., Red Cloud—City let contract sewer system to ELKHORN CONSTRUCTION CO., Fremont, $9,841. Noted Sept. 7.

Mont., Three Forks—(Official)—City let contract sanitary sewers to SECURITY BRIDGE CO., Minneapolis, Minn., $127,449. Noted Sept. 7.

Okla., Norman—(Official)—City will build sewers by day labor. About $7,000. Noted Sept. 14.

GARBAGE

Proposed Work

N. J., Newark—Bd. Pub. Wks. soon receives bids for 300-ton garbage disposal plant. M. Sherrerd, Ch. Engr. Noted Sept. 28.

S. C., Orangeburg—City plans incinerator plant. E. Hawes, Jr., City Engr.

Ga., Cordele—City plans crematory. About $4,000. G. S. Harris, City Clk.

Ky., Newport—City votes Nov. 7 on $40,000 bonds for garbage incinerator. J. B. Morlidge, City Engr. Noted Mar. 9.

Ohio, Ironton—A. J. Hannan, Mayor, recommended to City Council construction of garbage-disposal plant. L. G. Howell, City Engr.

Tex., Cisco—City plans garbage disposal plant.

Bids In and Contracts Awarded

Ill., Mattoon—City let contract garbage disposal plant to O. A. ELLIOTT CO., Springfield, $5,000. Noted Aug. 31.

Wis., Stevens Point—City let contract 10-ton garbage incinerator to MINNEAPOLIS BRIDGE CO., 606 Metropolitan Life Bldg., Minneapolis, $5,000.

STREETS AND ROADS

Proposed Work

Mass., Springfield—Finance Com. voted $5,000 for sidewalks. F. H. Clark, City Engr.

R. I., Providence—City plans to pave several streets. W. W. Southgate, City Engr.

Conn., Stratford—Bd. Finance recommended expenditure of $5,900 for street improvements. J. Lally, City Engr.

N. Y., Albany—City soon receives bids for improving 9th St. F. R. Lanagan, City Engr.

N. Y., Albany—(Official)—E. Duffey, State Highway Comr., 55 Lancaster St., receiving bids Oct. 26 for constructing and repairing highways in various counties. (See adv.)

N. Y., Amsterdam—Council passed resolution to pave portion East Main St., brick, and macadamize Church St. C. G. Messenger, City Engr.

N. Y., Briarcliff—(Pine Plains post office)—City soon receives bids for 1¼ mi. macadam or concrete paving, about $20,000. Wulff Engineering Co., Tarrytown, Engr.

N. Y., Lake Placid—Taxpayers voted to pave Main St., brick, about $48,000.

N. Y., New York—(Brooklyn)—L. H. Pounds, Borough Pres., Borough Hall, receiving bids Oct. 11 for improving various streets.

N. Y., New York—(Brooklyn)—L. H. Pounds, Borough Pres., Borough Hall, receiving bids Oct. 16 for improving portion Maspeth Ave.

N. Y., New York—(Manhattan)—Park Bd. Dept. Parks, Municipal Bldg., receiving bids Oct. 11 for paving and repaving with mastic asphalt where directed walks of Central and other parks.

N. Y., New York—(Richmond)—C. D. Van Name, Borough Pres., Borough Hall, St. George, New Brighton, receiving bids Oct. 9 for concrete sidewalks on portions New Dorp Lane, Locust, Elm, Seaview and Maple Ave.

N. Y., Rochester—Council plans to pave and curb Goodman St., asphalt and stone. F. T. Elwood, City Engr.

N. Y., Syracuse—City plans new streets, also to extend present streets in southwest portion of city, including vicinity of Onondaga Park. H. A. Allen, City Engr.

N. Y., Utica—Comr. Pub. Wks. directed to repair pavement in West Ave. J. Kemper, City Engr.

N. Y., Watertown—Bd. Pub. Wks. plans to improve Gotham St. E. W. Sayles, City Engr.

N. Y., Watertown—Council approved plans for paving Bronson St. E. W. Sayles, City Engr.

N. Y., Yonkers—City plans sidewalks on several streets. D. F. Fallon, City Engr.

N. J., Asbury Park—City plans to widen and repair Main St. and Ocean and Lake Ave. H. L. Baumgartner, City Engr.

N. J., Bayonne—City Comn. plans to improve West 39th St., asphalt. W. L. Clarkson, City Engr.

N. J., Boonton—Council adopted ordinance for widening Myrtle Ave.

N. J., Caldwell—Bd. Freeholders Essex County, Newark, will pave portion Bloomfield Ave., granite block. F. A. Reimer, Newark, County Engr.

N. J., Camden—(Official)—Stone Rd. Com. of Camden County receiving bids Oct. 11 for Grenloch Rd., bituminous surface on macadam foundation, 13,782 sq.yd. surface, 13,782 sq.yd. foundation and 10,000 cu.yd. excavation. J. J. Albertson, Camden, County Engr. (See adv.)

N. J., Hammonton—City receiving bids Oct. 11 for surfacing 15,910 sq.yd. Bellevue Ave., concrete. Remington & Vosbury, 6th and Market St., Camden, Engr. Noted Aug. 24.

N. J., Lyndhurst—Bd. Comrs. plans to improve Park Ave., asphalt.

N. J., Newark—City receiving bids Oct. 19 for paving portion Salem St., Porter Pl. and Custer Ave., concrete. M. R. Sherrard, City Engr.

N. J., Newark—City plans to pave portion Shephard Ave., bitulithic. M. R. Sherrard, City Engr.

N. J., Passaic—City soon receives bids for 18,000 sq.yd. asphalt paving on Passaic Ave. C. R. Wise, Municipal Bldg., Engr.

N. J., Passaic—Bd. Comrs. plans to pave portion Martha Pl., macadam. C. R. Wise, City Engr.

N. J., Trenton—City Comn. plans to pave Conover St., brick. L. D. Hirsch, City Clk.

N. J., Woodbury—Gloucester County receiving bids about Oct. 17 for paving Elm and Hardingville Rd., gravel, about $10,000. W. C. Cattell, Wenonah, Engr. Noted Sept. 7.

Penn., Aldan—(Official)—Council approved $10,000 bond issue for street improvements. Address A. M. Myers, Aldan. Noted Aug. 17.

Penn., Ambler—Montgomery County plans to improve Ridge Rd., about $94,000. Address County Clk., Norristown.

Penn., Greensburg—Westmoreland County receiving bids Oct. 29 for 3¼ mi. brick paving, including curbing and grading, about $70,000. W. G. Muse, Greensburg, Engr.

Penn., Kittanning—City plans to pave portion Walnut St.

Penn., Philadelphia—City receiving bids Oct. 28 for grading and paving various streets, also repairing bridges, about $150,000. C. E. Albright, City Engr.

Penn., Sharpsville—Council passed ordinance to pave portion 6th St.

Penn., West View—(Pittsburgh post office)—City receiving bids Oct. 10 for improving portion Chalfonte Ave. C. A. McClain, Borough Clk.

Penn., Williamsport—Council passed ordinance to issue $60,000 bonds for resurfacing West 3rd and 4th St., also storm-water sewers. J. B. Otto, City Engr.

Md., Baltimore—(Official)—State Rds. Comn., 601 Garrett Bldg., receiving bids Oct. 10 for Contract No. BC-26, 1 section Pennsylvania Ave. from North to Fulton Ave., asphalt; Contract No. BC-27, 1 section Hilton from Wesley St. to Frederick Rd., asphalt. F. H. Zouck, Chn. (See adv.)

Md., Baltimore—City election Nov. 7 to vote on $2,000,000 bonds for street improvements in Annex and $1,000,000 for improvements in old city limits. Former amount to be expended under supervision of Comrs. for Opening Streets and Annex Com. R. M. Cooksey, City Engr.

Md., Baltimore—(Official)—State Rds. Comn., 601 Garrett Bldg., receiving bids Oct. 16 for 1 section State Highway in Dorchester County, Contract D-19. F. H. Zouck, Chn. (See adv.)

Md., Salisbury—Wicomico County receiving bids Oct. 10 for 2 sections State-Aid Highway upon or along Jersey Rd. between Salisbury and Delmar, about 2 mi. H. M. Clark, Salisbury, Rd. Engr.

Va., Newport News—City plans election to vote on $50,000 street-improvement bonds. T. E. Pearse, City Engr.

Va., Norfolk—Council plans to widen Boush and Atlantic St., also curb, gutter and pave other streets. W. H. Taylor, Jr., City Engr.

Va., Portsmouth—City plans to curb and gutter Dinwiddie St., about $8,000. J. F. Weaver, City Engr.

W. Va., Moundsville—(Official)—City receiving bids Oct. 21 for paving portions Grant, Ash and Tomlinson Ave. A. Purdy, City Engr. Noted Sept. 7.

W. Va., Pennsboro—City receiving bids Oct. 20 for improving streets. Chavet & Armstrong, Fairmont, Engr. Noted July 20.

N. C., Hamlet—Town plans $50,000 bond issue for street improvements.

S. C., Greenville—(Official)—City voted $130,006 paving bonds. W. F. B. Haynesworth, City Engr. Noted Sept. 21.

S. C., Sumter—Council plans to spend about $30,000 for paving several streets. W. L. Lee, City Engr.

Fla., De Funiak Springs—Walton County election Nov. 21 to vote on $275,000 road bonds.

Fla., Jacksonville—Duval County plans $250,000 road-bond issue. Address County Clk., Jacksonville.

Fla., Milligan—Oskaloosa County to organize special road and bridge district and issue bonds for roads. Government to appropriate $14,000 toward work. Address County Clk., Milligan.

Fla., Tallahassee—Leon County receiving bids Oct. 10 for Meridian, Springhill, Centerville, Sunnyhill, Miccosukie, Bucklake, Wadesboro, Quincy and Woodville Rds. J. W. Jones, Tallahasse, County Engr.

Ala., Birmingham—City plans to pave, curb and gutter Cliff Rd. J. Kendrick, City Engr.

Ala., Birmingham—City Comn. adopted ordinance to pave portion Tuscaloosa Ave., asphalt, about $60,000. J. Kendrick, City Engr.

La., Convent—City voted $200,000 road bonds. Noted Aug. 17.

Tenn., Hamlet—Town plans to issue $50,000 bonds for street improvements.

Tenn., Nashville—City plans to grade Commerce St., about $5,800.

Tenn., Savannah—Hardin County sold $100,000 road bonds. A. A. Watson, Savannah, County Judge. Noted July 13.

Ky., Harlan—City soon receives bids for macadamizing principal streets.

Streets and Roads (Continued)

Ky., Henderson—(Official)—City soon receives bids for paving River Dr. Rd., about 1 mi. broken stone, $13,000. W. Hopkins, City Engr. Noted Sept. 21.

Ky., Louisville—City directed S. T. Mann, City Engr., to prepare estimate of cost of macadamizing portion Culbertson Ave., also to repair portions Beeler and Chartres St.

Ohio, Akron—City plans improving portion Dick St. J. A. Gehres, City Engr.

Ohio, Akron—Summit County soon receives bids for brick paving on Manchester Rd., about $5,500. U. G. High, Akron, Clk.

Ohio, Cincinnati—Council passed ordinance to improve portion Arch St. by paving and curbing with asphalt or bitulithic, also necessary drains and inlets and replacing 4-in. water main with 6-in. main. F. Krug, City Engr.

Ohio, Cincinnati—City receiving bids Oct. 10 for improving portion Ohio Ave. Charles F. Hornberger, Dir. Pub. Ser. F. Krug, City Engr.

Ohio, Cincinnati—City soon receives bids for paving Ellis, Fling and Vine St. and North Edgewood, Arrow and Beech Ave. F. Krug, City Engr.

Ohio, Cincinnati—Hamilton County receiving bids Oct. 20 for repairing portion Mill Rd. A. Reinhardt, Cincinnati, Clk.

Ohio, Cincinnati—City plans sidewalks on portions Kasota, 7th and Chariton St. and Hillside, Warsaw, Vanvey and Elberon Ave. F. Krug, City Engr.

Ohio, Cleveland—City election Nov. 7 to vote on $3,000,000 paving bonds. Robert Hoffman, City Engr. Noted Sept. 14.

Ohio, Cleveland—Cuyahoga County receiving bids Oct. 11 for improving Boston Rd. from State Rd. to county line. W. A. Stinchcomb, County Surv.

Ohio, Euclid—City receiving bids Oct. 9 for sidewalks on Vine, Abbey and East Miller St. F. A. Pease, Marshall Bldg., Cleveland, Engr.

Ohio, Fairview—Town receiving bids Nov. 7 for purchase of $10,200 bonds for sidewalks on Lorain St. R. P. Jordan, Clk.

Ohio, Hamilton—City receiving bids Oct. 12 for improving portion North 9th St. Frank E. Weaver, City Engr. Noted Sept. 7.

Ohio, Hamilton—City receiving bids Oct. 12 for improving portion Franklin and C St., Eaton and Progress Ave. Frank E. Weaver, City Engr. Noted July 6.

Ohio, Lebanon—Warren County receiving bids Oct. 9 for improving Lytle and Five Points Rd., Clear Creek Township. M. E. Ross, Lebanon, Clk. R. E. Miller, County Engr.

Ohio, Mansfield—Council adopted resolutions to improve portions Lida, Harker and Buckingham St. W. J. Hazleton, City Engr.

Ohio, Maumee—City sold $48,480 street improvement bonds. Noted Sept. 14.

Ohio, New Boston—City plans to improve Rhodes and Lakeview Ave., brick. S. G. Harper, Portsmouth, Engr.

Ohio, Niles—City plans paving portion C St. G. A. Gehres, City Engr.

Ohio, Steubenville—Bd. Control receiving bids Oct. 12 for improving portion Henry Ave. J. N. Leech, City Engr. Noted Sept. 28.

Ohio, Upper Sandusky—City to vote in November on $80,000 street paving bonds.

Ohio, Waynesfield—Village Trustees soon receive bids for paving Wapakoneta St., about $30,000.

Ohio, West Park—City receiving bids Oct. 16 for improving Settlement, Wiltshire and Belmont St. Lander Engineering Co., 306 American Trust Bldg., Cleveland Engr.

Ohio, Youngstown—Council passed ordinances to improve portions Clearmount, Park Cliff and Donald Ave. and Hylda St. F. M. Lillie, City Engr.

Ohio, Youngstown—Council passed ordinance to improve Cassius Ave. from East Madison Ave. to south line city lot 30,186. F. M. Lillie, City Engr. Noted May 18.

Ind., Terre Haute—City plans to repave South 8th St. F. A. Rattman, City Engr.

Mich., Adrian—Lanawee County voted $75,000 road bonds for Hudson Township. Address County Clk., Adrian.

Mich., Petoskey—City soon receives bids for paving Washington, Bulkley and Standish Ave.

Mich., St. Johns—City plans to spend about $20,000 for paving. W. Cochrane, City Clk.

Ill., Galesburg—City to build highway from Galesburg to Lincoln Park. F. M. Connolly, City Engr.

Ill., Rock Island—City made plans for paving 40 blocks 9th St., brick, about $81,749. W. McConochie, Chn. Bd. Local Impvt.

Wis., West Allis—Council Passed resolution to pave portion Greenfield Ave. G. Staal, City Engr.

Iowa, Des Moines—City plans to pave portion Ingersoll Ave. next spring. K. Kastberg, City Engr.

Iowa, Independence—Council soon lets contract for 53 blocks paving in 1st and 3rd wards.

Iowa, Sioux City—City plans brick, stone and cement sidewalks. T. H. Johnson, City Engr.

Iowa, Tipton—City making preliminary plans for 50 blocks paving, including curbing and guttering. M. Tschirigie & Sons, 712 American Trust Bldg., Cedar Rapids, Engr.

Kan., Atchison—Council passed resolution to grade, curb and pave portion 6th St. F. S. Altman, City Engr.

Kan., Lawrence—Council passed ordinance to pave and curb portion Elm St. E. H. Dunmire, City Engr.

Kan., Paola—Resolution passed to improve portion East St. O. E. Long, Clk.

Kan., Topeka—Council plans cement sidewalks on 12 streets. T. H. Johnson, City Engr.

Neb., Omaha—Douglas County plans to pave 2 mi. west Center St., brick, about $23,700.

Neb., Omaha—City plans to pave Ames Ave. from 36th to 48th St. J. A. Bruce, City Engr.

S. D., Mitchell—City plans to pave Sanborn St., about 11 blocks, concrete. T. Eastcott, City Clk.

Mont., Great Falls—(Official)—City receives bids for grading portion Central Ave. next spring, about $10,635. L. B. Evenson, City Engr. Noted Sept. 21.

Mo., St. Joseph—City soon receives bids for paving portion 10th St. C. P. Hoff, Engr.

Ark., Corning—Clay County made surveys for about 6 mi. road. Address County Clk., Corning.

Ark., Fayetteville—City plans to pave portion College Ave., about $17,000.

Ark., Texarkana—Bd. Impvt. of Dist. No. 20 receiving bids Oct. 30 for about 40,000-ft. concrete, asphalt, macadam, brick, cement or gravel paving. E. F. Peterson, Engr.

Tex., Brownsville—Cameron County, Dist. No. 7, plans election to vote on $15,000 road bonds. Address County Clk., Brownsville.

Tex., Cameron—Milam County plans election to vote on $15,000 road bonds for Dist. No. 7. Address County Clk., Cameron.

Tex., Canton—Van Zandt County defeated $150,000 road bonds for Precint No. 5. Noted Sept. 7.

Tex., Cumby—Hopkins County sold $50,000 road bonds. Address County Clk., Cumby. Noted May 4.

Tex., Dallas—Dallas County plans election to vote on $2,000,000 road bonds. Address County Clk., Dallas.

Tex., Dallas—City plans to pave portion Englewood Ave., vibrolithic. H. Moseley, City Engr.

Tex., Dallas—City plans to pave portion Tyler and 7th St., asphalt, and East Grand Ave., vibrolithic. H. Moseley, City Engr.

Tex., El Paso—G. Espy, City Engr., estimates cost of paving portion 2nd St. at $30,403.

Tex., Ft. Worth—City soon receives bids for paving portion Washington Ave. F. J. Von Zuben, City Engr.

Tex., Plano—Council plans to pave several streets in business district.

Tex., Weatherford—Parker County plans election to vote on $600,000 road bonds. Address County Clk., Weatherford.

Okla., Arapahoa—Custer County plans election to vote on $500,000 road bonds. Address County Clk., Arapahoa.

Okla., Tishomingo—Johnston County election Nov. 7 to vote on $20,000 road bonds. Address County Clk., Tishomingo.

Okla., Wilburton—Latimer County plans election to vote on $32,500 bonds for grading and macadamizing roads in Red Oak Township. Address County Clk., Wilburton.

Colo., Boulder—Boulder County plans $500,000 road-bond issue. Address County Clk., Boulder.

Colo., Pueblo—Council plans to create new paving district. D. P. Gaymon, City Engr.

Utah, Ogden—City plans to pave Washington Ave. to city limits. J. M. Tracy, City Engr.

Utah, Salt Lake City—Salt Lake County will vote in November on $40,000 or $50,000 road bonds. Address County Clk., Salt Lake City.

Wash., Seattle—Plans made for paving Roy St., about $10,500; 5th St., about $100,000. A. H. Dimock, City Engr.

Wash., Seattle—A. H. Dimock, City Engr., submitted report estimating cost of improving East 71st St. at $15,247.

Calif., Berkeley—Alameda County to spend about $60,000 for paving various streets. Address County Clk., Oakland.

Calif., Los Angeles—Council adopted ordinance to improve portion Lincoln Ave. H. Hamlin, City Engr.

Calif., Los Angeles—Council adopted ordinance for paving portion 18th St. and Grand Ave. G. Cromwell, City Engr.

Calif., Redding—City plans election in November to vote on $15,000,000 bonds for road work.

Calif., San Diego—City making plans for paving 1 mi. Biological Grade Rd. G. Cromwell, City Engr.

Calif., San Jacinto—City plans election to vote on $30,000 paving bonds.

Calif., San Mateo—Trustees Hayward Park plan to pave all streets.

Calif., Visalia—City passed resolution to pave North Church St., about $60,000; also pave portion of East Main St., South Court, Acequia, Mineral, and North Endina St. and King and Tulare Ave.

Ont., Niagara Falls—City plans to macadamize Barker and Morrison St.

Ont., Ottawa—Dominion Government plans to repave Wellington St., about $70,000. R. E. Desrochers, Ottawa, Secy. Dept. Pub. Wks.

Bids In and Contracts Awarded

Mass., Arlington—(Official)—Metropolitan Park Comn., Boston, let contract grading, filling and culvert for Mystic Valley Pkway, Extension from Mystic to Medford St., to J. H. FANNON, Somerville, $12,950.

Mass., Boston—Massachusetts Highway Comn. let contract roads in Bourne and Plymouth Townships to CENTRAL CONSTRUCTION CO., Southampton, about $7,402.

Mass., Boston—State Highway Comn. let contract road in Norwell Township to E. J. ROURKE, Abington, $7,221.

Mass., Pittsfield—Bd. Pub. Wks. let contract sidewalks North and West St. to EMERSON & GERMAIN.

Conn., Hartford—City let contract macadam paving on Olmstead St., East Hartford, to L. SUZIO CONSTRUCTION CO., Hall Bldg., Meriden.

Conn., Hartford—Bd. Contract and Supply let contract 12,400-sq.yd. rein.-con. on Richfield and Scarborough St. to F. A. BARONE, 16 Winchester St., about $12,070.

Conn., New Canaan—City let contract paving South Ave. and Smith Ridge Rd. to WARREN BROS. CO., 142 Berkeley St., Boston, about $47,000.

Conn., Norwalk—City plans to spend about $7,000 for concrete paving. Work will be done by day labor. G. A. Sherron, City Engr.

N. Y., Amsterdam—City let contract grading Evelyn St. to C. G. SYNDER .

N. Y., New York—(Bronx)—(Official)—Contract paving portion East 213th St. and Dyre Ave. let to O. DANIELS CO., Woolworth Bldg., Manhattan, about $22,178 and $22,806, respectively. Noted Sept. 14.

N. Y., New York—(Bronx)—(Official)—Contract paving College Ave. and Southern Blvd. let to W. F. PRESLEY, about $11,661 and $16,170, respectively. Noted Sept. 14.

N. Y., New York—(Borough of Bronx)—(Official)—DABNEY ASPHALT CO., 177th St. and Westchester Ave., at $12,050, awarded contract repaving portion Daly Ave. Noted Oct. 5.

N. Y., New York—(Brooklyn)—(Official)—M. J. O'HARA, 577 3d St., at $9,460, awarded contract resurfacing Bay Pkway. Noted Oct. 5.

N. Y., New York—(Brooklyn)—(Official)—Contract paving portion Smith St. let to NEWMAN & CAREY CO., 1228 Nostrand Ave., $22,272; 88th St., McKENNA & GALLAGHER, 1386 Sterling Pl., $6,046. Noted Sept. 28.

N. Y., New York—(Brooklyn)—(Official)—M. J. O'Hara, 577 3rd St., low bidder repaving 30th St. from bulkhead to 2nd Ave., $7,745, from 2nd to 3rd Ave., $11,608; Standard Oil Co., 26 Broadway, for 80,000 gal. refined asphalt, liquid form. Noted Sept. 1.

N. Y., New York—(Manhattan)—(Official)—Contract regulating roadway Chambers St. let to W. J. FITZGERALD, 547 West 45th St.

N. Y., New York—(Manhattan)—(Official)—M. J. O'Hara, 577 3rd St., Brooklyn, at $32,841, low bidder repaving south road Williamsburg Bridge. Noted Sept. 21.

N. Y., New York—(Manhattan)—(Official)—M Baird Contracting Co., 433 East 92d St., at $53,472, low bidder granite block pavement on concrete foundation roadway of Central Park Tranverse Rd. No. 2 from 5th Ave. and 79th St. to Central Park West and 81st St.; W. J. Fitzgerald, 547 West 35th St., at $48,540, for same work with redressed granite block pavement on concrete foundation. Noted Sept. 28.

N. Y., Schenectady—City let contract paving to D. LEWIS.

N. Y., Syracuse—City let contract resurfacing portion Fitch St. to WARNER-QUINLAN CO., 79 Wall St., New York, $9,376.

N. J., Bergenfield—City let contract sidewalks portion Bergen Ave. to TAVELIERRE & JOHNSON, Washington Ave., Tenafly.

N. J., Camden—City let contract paving portion Elm. St. to N. P. CORSON, 1141 Sycamore St. Noted July 20.

N. J., Montclair—City let contract paving Orange Rd. to CONTINENTAL CONSTRUCTION CO., Montclair, $1.05 per sq.yd.; Laurel Rd., to M. TUSCO, Montclair, $1.00 per yd. Noted Aug. 17.

N. J., Newark—R. Sangiovanni, at $5,372, low bidder paving portion Cedar Ave. M. R. Sherrard, City Engr. Noted Sept. 7.

N. J., Newark—City let contract repaving Roseville Ave. to J. S. GEIGER SONS, 80 Hartford St., $42,643. Noted Sept. 14.

N. J., Newark—City rejected bids for repaving portion Jefferson St.

N. J., Newark—City let contract paving to STANDARD BITULITHIC CO., Essex Bldg., Strengel Ave., $9,953; Porter Ave., $5,719. Noted Sept. 21.

N. J., Newark—City let contract paving portion Elm Rd. to STANDARD BITULITHIC CO., $15,338.

Streets and Roads (Continued)

N. J., Newark—Low bidders paving portion Prince St., (a) granite, (b) wood block, were: A. J. Milmoe, (a) $20,718, (b) $21,589; O'Gara & McGuire, (a) $22,104, (b) $20,632; Newark Paving Co., (a) $24,194, (b) $21,179. Noted Sept. 7.

N. J., Ridgefield Park—Bd. Comrs., Municipal Bldg., 234 Hackensack Rd, Ridgefield Park, received low bid for improving Grove St. from A. W. Gill, Leonia. About $4,420. Noted Sept. 21.

N. J., Ridgefield Park—Bd. Comrs., Municipal Bldg., 234 Hackensack Rd., Ridgefield Park, received low bid for improving portion of Gordon St. from A. W. Gill, Leonia. About $11,134. Noted Sept. 21.

N. J., West New York—City let contract improving portion Bergenline Ave. to G. J. HORNING, 516 16th St. Noted Sept. 14.

Penn., Cannonsburg—Council let contract furnishing about 341,000 paving brick to C. P. MAYER BRICK CO., Bridgeville.

Penn., Du Bois—City let contract paving Orange Alley to J. T. MINNS, about $5,200.

Penn., McClellandtown—County let contract improving McClellandtown, Punta and McClellandtown-Lambert Rd. to J. T. HOOVER, Uniontown, about $15,000.

Penn., McConnellsville—County let contract paving Kennebec Hill Rd. to W. H. QUIGLEY, about $16,362.

Penn., Manor—City let contract grading and curbing portion Cleveland Ave. to H. DEVANGELES, Irwin.

Penn., Monessen—City let contract 7,500 sq.ft. sidewalks on 9th St. to W. B. TAYLOR, Charleroi.

Penn., Nanticoke—City let contract paving portion North Market St. to CARADOC & REES. Noted Mar. 23.

Penn., New Brighton—City let contract sidewalks, paving, curbing and guttering portion 12th Ave. to M. GREEK.

Penn., Philadelphia—City let contract paving portion Front St. to MACK PAVING AND CONSTRUCTION CO., 20th and Sedgley Ave., about $4,800.

Penn., Pittsburgh—City let contract improving 4th Ave. to BOOTH & FLINN, 1942 Forbes St.; Alderson St., G. S. WHITE CO., Jenkins Arcade. Noted May 4.

Penn., Pittston—City let contract paving upper William St. to E. QUINN, Plymouth, $7,980; South Main St., O'BRIEN BROS., Avoca., about $82,000.

Penn., Prospect—Council let contract paving to UNION PAVING CO., Philadelphia, about $35,000.

Penn., Scranton—City let contract paving portion Wyoming Ave. to MATTHEWS STIPP, 435 Moir St., about $12,837. Noted July 6.

Penn., Yeadon—Borough let contract curbing to M. A. ARNOLD, Manhattan Bldg., Philadelphia, about $4,000.

Del., Wilmington—Newcastle County received low bid Newport Pike from J. Levy, $12,222.

Va., Fredericksburg—City let contract unimproved road in national highway between Fredericksburg and Washington to PERKINSON & FINN, Quantico, about $19,909.

Va., Gate City—County let contract 7½ mi. macadam road to MITCHELL & COCHRANE CO., Chatham.

Va., Suffolk—City plans to spend about $6,000 for resurfacing Franklin and Pinover St. by day labor.

W. Va., Charleston—(Official)—Kanawha County let contract 8 mi. road work in Big Sandy Dist. to F. J. McGUIRE, Norfolk, about $173,655. Noted Sept. 7.

W. Va., Spencer—Roane County to spend about $250,000 for road work in Spencer Dist. Work to be done by force account. B. Woodward, Spencer, Engr. Noted Apr. 20.

N. C., Stacy—County let contract 4.25 mi. road to J. W. BOON, Newport.

Fla., St. Augustine—County let contract 11 mi. road to GLEISSON & HANCOCK, about $23,500.

Ala., Birmingham—City Comn. let contract improving portion 5th Ave. to P. RICHTER, about $11,000.

Ala., Gadsden—(Official)—City let contract curbing, guttering and sidewalks to C. O. DUNCAN.

Ala., Scottsboro—Jackson County rejected bids for improving Woodville and Limerick Highways. Noted Aug. 31.

Ala., Tuskegee—Macon County let contract improving Tuskegee and Notasulga Highways to SANLEY & SINGER, Lafayette, about $7,000. Noted Aug. 31.

Miss., Kosciusko—Attala County let contract 8 mi. gravel roads to C. C. SCARCY & CO., Columbus; 17½ mi. to F. D. HARVEY & CO., Starksville.

Tenn., Lawrenceburg — (Official) — Lawrence County Highway Comn. let contract improving Jackson Military Rd., 36 mi., to B. WILLIAMS, McMinnville, about $136,076. Noted Sept. 7.

Tenn., Memphis—City let contract paving portion Front St. to E. J. WETTERSTRON, Kansas City, Mo.

Tenn., Morristown—City let contract paving and guttering streets in Impvt. Dist. No. 10 to GIBSON CONSTRUCTION CO. Noted Sept. 7.

Ky., Carrollton—Carroll County let contract 4 mi. new pike and reconstructing 2½ mi. old pike on Carrollton and Bedford Rd. to S. COOMBS, Carrollton.

Ky., Greenup—Greenup County to grade and macadamize roads by force account.

Ky., Owensboro—Daviess County rejected bids for improving River and Livermore Rd. Noted Sept. 7.

Ohio, Alliance—Council let contract paving portion South Freedom St. to J. WILSON. Noted June 29.

Ohio, Bowling Green—Wood County let contract improving Albert Ayers Rd., Lake Township, to C. J. MILLER, Chamber of Commerce Bldg., Toledo, about $28,094.

Ohio, Canton—Bd. Control let contracts paving various streets as follows: Bank Pl. and Garfield Ave., brick, to W. H. STANTON, Canton, about $6,893; Rex Ave., brick, to F. A. DOWNS CONSTRUCTION CO., Canton, about $13,157; Clarendon Ave., asphalt, to CLEVELAND TRINIDAD PAVING CO., Cleveland, about $45,789; 3d St., brick, to BURD CONSTRUCTION CO., about $46,447; 10th Ave., brick, to N. E. WISE, Canton, about $15,361; 11th St. and Yale Ave., brick, to F. A. DOWNS CONSTRUCTION CO., Canton, about $20,907 and $5,066. Noted Sept. 21.

Ohio, Cincinnati—Bd. Control let contract roads, grading, etc., in Ault Park to R. E. CASH, 409 Lincoln Inn Court, about $38,030.

Ohio, Cleveland—City let contract improving Shaker Blvd. to BENTLEY BROS. CO., $41,700; Shoker Blvd. to CLEVELAND-TRINIDAD PAVING CO., $137,700.

Ohio, Cleveland—Five Point Allotment Co., Park Bldg., let contract grading St. Clair Ave. to WARD BROS., sewers to RIVER CONSTRUCTION CO., Mayfield Rd. About $60,000.

Ohio, Cleveland Heights—(Warrensville post office)—City let contract improving Cleveland Heights Blvd. to ASPHALT BLOCK PAVEMENT CO., 701 Marshall Bldg., Cleveland. Noted Aug. 31.

Ohio, Cleveland Heights—(Warrensville post office)—City let contract improving Hampshire Rd. to CLEVELAND-TRINIDAD PAVING CO., 420 Lakeside Ave., Cleveland. Noted Aug. 17.

Ohio, Columbus—(Official)—Franklin County let contract road between rails of Ohio Electric Railroad Co. along center line of Mason Rd. Impvt., Bexley Village and Marion Township, to G. H. HEFFNER & SON, Celina, $4,072. Noted Sept. 21.

Ohio, Columbus—State Highway Comn. received bids Sept. 28 for highways in various counties as follows: Adams County, Section "A" West Union-Hillsboro Rd., water-bound macadam, 2.5 mi., Thomas Dalton, Dayton, $19,023. Adams County, Section "C" West Union-Sinking Springs Rd., water-bound macadam, 2.82 mi., J. M. Graham Co., Peebles, $19,040. Clinton County, Section "E" Cincinnati-Chillicothe Rd., water-bound macadam, 0.77 mi., Ohio Marble Co., Piqua, $4,962; Wilson Engineering Co., Xenia, $4,810. Harrison County, Section "D" Cadiz-Dennison Rd., water-bound macadam, 2.0 mi., A. G. Morgan, Cadiz, $10,913. Huron County, Section "B" Barberton-Greenwich Rd., concrete, 1.11 mi., Crawford & Little, Elyria, $12,974; Graves Barrett & Leach, New London, $12,936; Hill & Hill, Elyria, $12,821. Logan County, Section "D" Bellefontaine-Richwood Rd., concrete, 0.34 mi., Obrien & Green, Marysville, $5,994. Lorain County, Section "N" Oberlain-Elyria Rd., brick, 0.33 mi., contract No. 1, C. E. Williams, Grand Rapids, Mich., $12,098; Graves, Barret & Leach, New London, $12,140, (B) $10,387, Contract No. 2, C. E. Williams, $10,288, $4,212.50; Graves, Barret & Leach, $4,180. Ottawa County, Section "H" Toledo-Elmore Rd., water-bound macadam, 1 mi., Hamin & Hamin, Bellevue, $8,611; W. G. Mustard, Ada, $8,611; Muldoon & Bergman, Genoa, $8,412. Richland County, Section "J-2" Mansfield-Shelby Rd., reinforced concrete and cinders, 0.38 mi., E. M. Deitz, Millersburg, $4,489. Trumbull County, Section "R" Youngstown-Sharon Rd., brick, 1.14 mi., McDermott & Hammond, Niles, $21,362; J. C. Devine Co., Alliance, $22,277; William McIntyre & Sons, Sharon, Penn., $22,810. Tuscarawas County, Section "A" Canton-Canal Dover Rd., 2.97 mi., Mack Wardell, Strasburg, $14,219. Vinton County, "A" McArthur-Gallipolis Rd., 1.77 mi., Keuhner & King, Jackson, $16,350; concrete, $17,443; brick, $19,432; Culbertson & Culbertson, Richmond, Ind., concrete, $17,425; brick, $19,360. Washington County, Section "A" Marietta-McConnellsville Rd., 1 mi., D. G. Shafer, Caldwell, $6,321; S. A. Palmer, Marietta, $6,280; Patton & Faust, Lowell, $6,159. Washington County, Section "M" Hockingport-Powhatan Rd., 0.96 mi., Ames & Burdell, Parkersburg, W. Va., $3,658; S. A. Palmer, Marietta, $3,430. Wyandotte County, Section "A" Bucyrus-Nevada Upper Sandusky Rd., bituminous macadam, 4.77 mi., Long & Ankine, Upper Sandusky, $26,898; Graham & Kinnear, Columbus, $28,969; Forest Construction Co., Forest, $28,969. Cuyahoga County, Section "A" Cleveland-Sandusky Rd., brick, Elyria Construction Co., Elyria, $150,194; Hart & Kemp, Elyria, $158,155; Really Bros., Cleveland, $162,915; concrete, Cleveland Trinidad Paving Co., Cleveland, $151,504; Hart & Kemp, Elyria, $149,675; Pace Bros., Cleveland, $154,477; bitulithic, Cleveland Trinidad Paving Co., Cleveland, $159,457.

Ohio, Dayton—City let contract paving to T. P. STRACK, Goodall Bldg., Cincinnati, about $10,000.

Ohio, Defiance—County let contract paving Ottawa Pike to R. C. ROACH, about $64,000.

Ohio, Dillonvale—(Official)—City let contract paving portion Church Alley and Thomasson St. to ROSSER & MALONEY, Bellaire, about $4,200. Noted Aug. 31.

Ohio, Gibsonburg—Council let contract paving West Madison and North Main St. to MODERN CONSTRUCTION CO., Fremont.

Ohio, Greenville—Darke County let contract improving Star Rd., York Township, to ALEXANDER BROS., Versailles, $11,179.

Ohio, Jewett—Borough let contract paving and curbing and storm sewer to CASS & MEYER, Wheeling, W. Va., about $15,000.

Ohio, Lima—(Official)—City let contract paving Robb and Fairview Ave. to H. S. ENCK, Lima. Noted Sept. 21.

Ohio, Lisbon—City let contract paving and curbing North Market St. to McLANE & HEPBURN, about $9,900.

Ohio, Marion—City let contracts about 45,954 sq.yd. sidewalks to O. J. NOBLE, HAFFSTETTER & DAWSON and J. H. KINSLER. Noted Aug. 31.

Ohio, Napoleon—Henry County let contract 3 mi. stone road in Richfield Township to GAGHAN, McGEE & STROHL, Custer, $25,242.

Ohio, Niles—City let contract paving Main St. to J. DEJUTE, about $19,000.

Ohio, Ottawa—(Official)—Council let contract draining and macadamizing 2nd St. to GOETSABIUS & McDOWELL, Ottawa, about $8,382. Noted Sept. 14.

Ohio, Piqua—City let contract curbing, guttering and paving portion Robinson Ave. to J. J. SHANNON.

Ohio, Portsmouth—City let contract paving and curbing to S. MONROE & SON, about $4,500. Noted Aug. 3.

Ohio, Springfield—City let contract paving portion Cassilly St. to W. F. PAY, about $15,000; Pleasant St., M. J. HANNON, about $18,000.

Ohio, Springfield—City let contract paving portion Grube Rd. to M. J. HANNON, about $8,000. Noted Oct. 5.

Ohio, Tiffin—City received bids improving portion St. Clair St. from L. Schauder and G. Stewart. Noted Sept. 21.

Ohio, Tiffin—L. Schauder only bidder repaving North Washington St. Noted Sept. 21.

Ohio, Upper Sandusky—Wyandotte County let contract Rd. No. 75, Salem Township, to FOREST CONSTRUCTION CO., $5,500; Rd. No. 76, Salem-Mifflin Township, SHEPPARD BROS. & TAYLOR, Kenton, $4,515.

Ohio, Warren—City let contract paving and curbing Buckeye and Mulberry St. and Summit St. bridge approaches to F. L. GEIGER, about $35,000. Noted Sept. 28.

Ohio, Warren—Trumbull County let contract road in Newton Township to McDERMOTT & HANNON, Niles, about $17,223.

Ind., Anderson—Low bidders paving portion Central Ave. were D. J. Dalton, concrete, $8,534; Daniels & Lyst, brick, $12,151. Noted Aug. 10.

Ind., Columbus—(Official)—Bartholomew County rejected bids for 3 concrete roads in Columbus Township. Noted Aug. 31.

Ind., Columbus—(Official)—Bartholomew County let contract rock road in Rock Creek Township to G. T. NUGENT, Hartsville, about $7,938. Noted Sept. 7.

Ind., Danville—(Official)—Hendricks County let contract road in Washington Township to ERGANBRIGHT & DISNEY, North Salem, about $11,400. Noted Sept. 7.

Ind., Indianapolis—City let contract paving portion Broadway to REPUBLIC CONSTRUCTION CO. Noted July 20.

Mich., Grand Rapids—Kent County let contract road work to BOYES & BLANDFORD, about $35,642.

Mich., Grosse Pointe Park—City let contract paving to CLEVELAND-TRINIDAD PAVING CO., 2940 Woodward Ave., Detroit.

Mich., Lapeer—Lapeer County let contract road work to J. W. SLATTERY, North Branch, about $22,400.

Mich., Mt. Clemens—Council let contract about $34,000 worth paving to METROPOLITAN PAVING BRICK CO., Canton.

Mich., Pontiac—City let contract paving to J. H. PARKER & SONS.

Mich., Port Huron—(Official)—City let contract paving portions 10th and Suffern St. and 10th Ave. to J. H. BAKER & SON, about $4,000. Noted Sept. 14.

Ill., Belleville—Bd. Local Impvts. let contract improving various streets to HOEFFKEN BROS., West B St.

Ill., Berwyn—City let contract paving 4 streets to R. F. CONWAY CO., Chicago. Noted Aug. 17.

Ill., Carterville—(Official)—City let contract paving to KEELEY BROS., East St. Louis, about $33,000. Noted Sept. 21.

Streets and Roads (Continued)

Ill., Casey—City let contract paving to F. W. McELROY, Robinson, about $7,621.

Ill., Champaign—City let contract improving Union and 3rd St. and Park Ave. to STIPES & PILCHER, Champaign. Noted July 13.

Ill., Chicago—(Official)—Sanitary Dist. of Chicago received low bids for paving portion of 127th St. from W. J. Brady, Chicago, $4,895; W. A. Kenefick, Chicago, $7,560; James A. Sackley Co., Chicago, $6,600.

Ill., East St. Louis—City let contract improving Trendley and East St. Louis Ave. to LOUIS RICH CONSTRUCTION CO. About $32,000. Noted Aug. 24.

Ill., Jacksonville—City let contract paving South Clay Ave. to INTERSTATE PAVING CO., about $7,722. Noted Sept. 28.

Ill., Peoria—City let contract paving portion Behrends Ave. to MILLER & BUHL, about $14,435. Noted Aug. 17.

Ill., Stockland—City let contract paving to BISHOP & LIDDELL, Danville, about $56,000.

Wis., Merrill—City let contract paving Mill and 1st St. to CONDUCTIVE PAVING CO, $2.09 per sq yd. Noted Aug. 31.

Wis., Racine—City let contract paving to J. COPE & SONS.

Wis., Sheboygan—City let contract paving 14th St. to PRESTIEN & NAUMANN, about $11,993. Noted Sept. 21.

Iowa, Des Moines—City let contract resurfacing East 12th St. to J. HORRABIN CO.

Iowa, Dubuque—City let contract 25,000 sq.yd. paving to C. B. McNAMARA & CO., Dubuque.

Iowa, Emmetsburg—City let contract paving to ZITTERELL & SULLIVAN, Webster City, about $27,500.

Iowa, Estherville—Emmet County let contracts graveling 28 mi. roads to C. A. MITCHELL, Armstrong; W. E. HANSEN, Ringstead, and S. B. REED, Dolliver. Noted Aug. 31.

Iowa, Sioux City—City let contract paving 3 streets to J. OVERSEN, 2037 Lemon Ave. Noted Sept. 21.

Iowa, Valley Junction—City let contract about 66,000 sq.yd. bitulithic pavement to WARREN BROS., 59 Temple St., Boston, Mass. Noted June 8.

Minn., Duluth—P. H. Clough & Co., at $5,960, low bidder improving McCuen St.

Minn., St. Paul—Council rejected bids for paving portion Holly Ave. Work to be done by day labor.

Minn., St. Paul—City rejected bids for curbing and paving Mississippi River Blvd. Work to be done by day labor. O. Claussen, City Engr. Noted Mar. 30.

Kan., Atchison—T. K. Friedhoff low bidder concrete sidewalks on several streets.

Kan., Independence—City let contract paving and curbing to A. G. SHERWOOD, Independence, about $15,300. Noted Aug. 10.

Kan., Sterling—(Official)—City let contract paving several streets to J. H. SHEARS & SONS, Hutchinson, about $35,000. Noted Aug. 24.

Neb., Omaha—City let contract paving Happy Hollow Blvd. to H. MURPHY CONSTRUCTION CO., 246 Bee Bldg.

Mo., Joplin—City let contract paving portion Main St. to J. J. UNDERWOOD, Springfield.

Mo., Kansas City—Bd. Pub. Wks. let contract paving portion 12th St. to J. O'CONNOR & SON, 8,000 East 11th St., $30,285; Cleveland St., E. F. WILSON, $24,202; 51st St., A. JAICKS CO., American Bank Bldg., $14,720.

Mo., Kansas City—City let contract paving South West Blvd. to A. JAICKS CO., $60,507. Noted May 11.

Mo., St. Joseph—City let contract paving and sidewalks on portion Patee St. to METROPOLITAN CONSTRUCTION CO., Corby Bldg. Noted July 6.

Mo., Springfield—City let contract paving portion Proctor Ave. to JARRETT-RICHARDSON CONSTRUCTION CO.

Tex., Mt. Pleasant—City rejected bids for paving estimated to cost $15,000.

Tex., Pittsburgh—Camp County rejected bids for graveling 11½ mi. roads. Noted Apr. 13.

Tex., San Antonio—City let contract paving Elm St. to UVALDE ROCK ASPHALT CO., $1.66 per sq.yd.; Roman St., WESTERN PAVING CO., $1.70 per sq.yd.

Tex., Sweetwater—City let contract 4 blocks paving to J. MEYERS, $10,988.

Okla., Sand Springs—City let contract paving, asphaltic concrete, to STANDARD PAVING CO., San Antonio, Tex., $104,283. Noted Sept. 14.

Wash., Centralia—City let contract paving South Pearl St. to ALBERS & SON, Chehalis, about $6,000.

Wash., Colfax—Whitman County let contract grading 11 mi. Permanent Highway No. 12 to RISTVELDT & BRAGG, Colfax, about $39,150. Noted Aug. 31.

Wash., Everett—(Official)—City rejected bids for improving Wetmore Ave. Noted Sept. 14.

Wash., Seattle—City let contract paving Olive St. to COLUCCIO & NIBLETT, Seattle, about $21,726. Noted Sept. 28.

Wash., Spokane—City let contract curbing portion Adams St. to C. M. PAYNE.

Ore., Cottage Grove—City let contract improving 2nd St. to BEIDLER BROS.

Ore., North Bend—City let contract paving to DEAN & BROWN, North Bend, about $28,054.

Calif., Fowler—Cornfield & Davis, Bakersfield, at $7,750, low bidder about 6,000 lin.ft. concrete pavement.

Calif., Los Angeles—City let contract improving portion De Longre Ave. to G. R. CURTIS, about $7,417.

Calif., Los Angeles—Los Angeles County let contract improvement work in Dist. No. 124 to SOUTHERN CALIFORNIA CONTRACTING CO., Title Insurance Bldg., about $33,534.

Calif., Los Angeles—E. A. Baker, Hellman Bldg., at $13,250, low bidder 2.7 mi. concrete pavement on Lexington and Gallatin Rd. and Durfee Ave., Rd. Dist. No. 103.

Calif., San Jose—City let contract paving to J. W. McDONALD CO.

Calif., Santa Barbara—City received low bid paving portion Mission Ridge Rd. from Paul & Calkwell, Stockton, $53,337. Noted Aug. 24.

Calif., Santa Paula—City let contract about 220,000 sq.ft. paving and culverts on Main St. and Telegraph St. to FAIRCHILD-GILMORE-WILTON CO., Ventura.

Calif., Whittier—City let contract improving portion West Philadelphia St. to CALIFORNIA-ARIZONA CONSTRUCTION CO., 1700 East Washington St., Los Angeles.

N. S., Trenton—City let contract paving to FAGE & LUSBY, Amherst, about $32,000.

INDUSTRIAL WORKS

Proposed Work

Mass., Boston—Quincy Market Cold Storage and Warehouse Co., 133 Commercial St., making plans for 11-story cold-storage plant. J. P. Worcester & Co., 79 Milk St., Engr. Noted June 15.

Mass., Springfield—Pinkus Bess plans garage at Union and Hancock St. About $30,000.

N. Y., Albany—A. Mendleson's Sons, 20 Broadway, making plans for factory. About $80,000. A. Selkirk, 133 North Pearl St., Arch.

N. Y., Hamburg—Hamburg Planing Mill Co. making plans for 2-story, 50x100-ft. mill. About $20,000. Lansing, Bley & Lyman, 212 Prudential Bldg., Buffalo, Arch.

N. Y., New York—(Queens)—A. C. Horn Co., Bodine St., Long Island City, making plans for factory at 14th St. and Boulevard. Schwartz & Gross, 347 5th Ave., Manhattan, Arch.

N. Y., Niagara Falls—National Carbon Co. making plans for 1-story, 135x300-ft. factory. About $50,000. Osborn Engineering Co., Engineers Bldg., Cleveland, Ohio, Arch. and Engr.

N. Y., North Tonawanda—Rand Co. made plans for 3-story factory. About $45,000. R. J. Reidpath & Son, Builders Exchange, Buffalo, Arch. Noted Sept. 14.

N. Y., Troy—Troy Engine and Machine Co. making plans for 1-story foundry. About $50,000. Fletcher & Thompson, Inc., 1089 Broad St., Bridgeport, Conn., Arch.

N. J., Dover—Downs & Slater Co., Wharton, made plans for 1-story, 40x100-ft. foundry at Dover. About $18,000. Noted Sept. 7.

N. J., Jersey City—Lackawanna Terminal Stores Co., 15th and Provost St., made plans for 5-story, rein.-con. warehouse. MacDonald Engineering Co., 53 West Jackson Bldg., Chicago, Ill., Arch. Noted Aug. 3.

N. J., Newark—Martin Dennis Co., 859 Summer Ave., made plans for 2-story, 45x163-ft. factory. About $20,000. J. F. Capen, 207 Market St., Arch.

N. J., Paterson—Paterson Industrial Development Co. made plans 4-story brick and rein.-con. factory on Gray St. About $145,000. F. W. Wenworth, 140 Market St., Arch. Noted Aug. 24.

N. J., Union Hill—(Weehawken post office)—Hudson Dispatch-News made plans for 6-story, 100x120-ft. printing and office building. About $50,000. J. D. Lugosch, 21 Bergenline Ave., Arch. Noted Aug. 24.

Penn., Dunmore—Dunmore Silk Co. making plans for mill. J. T. Howley, Traders Bank Bldg., Scranton, Arch

Penn., Philadelphia—Cohlman & Sons, Inc., making plans for 3-story, 55x110-ft. factory. About $25,000. F. T. Uebell, 147 North 3rd St., Arch.

Penn., Philadelphia—General Scientific Equipment Co., 2718 West Lehigh Ave., making plans for 3-story, 110x125-ft. factory. Armando Alcantara, 2962 North Bailey St., Arch.

Penn., Philadelphia—A. Lieboritz, 1100 North 41st St., plans 3-story bakery. H. H. Kline, 536 Mifflin St., Arch.

Penn., Pittsburgh—Aaron De Roy Motor Car Co. making plans for 4-story, 50x130-ft. garage and salesroom. About $80,000. Rutan & Russell, Magee Bldg., Arch. Noted Sept. 21.

Md., Adamstown—Thomas & Co. plans concrete grain elevator, warehouse and office building.

Md., Cumberland—Kelly-Springfield Tire Co. Springfield, Ohio, plans plant at Cumberland.

Va., Petersburg—J. B. North & Co., Inc., making plans for 2-story, 80x90-ft. ice plant. About $10,000. S. Daily Craig and C. W. Usbell, Archs.

Va., Richmond—American Locomotive Co. plans addition to plant at 7th and Hospital St. About $45,000.

W. Va., Fairmont—Fairmont Chemical Co. plans plant. About $85,000. L. A. Thiele, Columbus, Ohio, Engr.

W. Va., Parkersburg—Parkersburg Brewing Co. making plans for 3-story factory. C. D. Cooley Co., Century Bldg., Pittsburgh, Penn., Arch.

Ala., Birmingham—Alabama Great Southern R.R. plans sand house, coal chute, etc. C. Dougherty, Cincinnati, Ch. Engr.

Ohio, Cincinnati—Cincinnati Iron and Steel Co. soon receives bids for addition to plant, Front St. and Freeman Ave. Noted June 1.

Ohio, Cincinnati—Evanston Laundry Co. making plans for 2-story rein.-con. factory at Clarion Ave. and Montgomery Rd. Leibold & Gott, Arch.

Ohio, Cleveland—C. H. Foster, 1411 East 40th St., made plans for 1-story, 30x80-ft. warehouse. About $12,000.

Ohio, Cleveland—City making plans for 1- and 5-story, 100x100-ft. and 120x200-ft. storage building. About $100,000. F. H. Betz, City Hall, Arch. R. Hoffman, City Engr.

Ind., Bluffton—Great Northern Glove Co. receives bids in November for 2-story, 48x140-ft. factory. About $15,000. C. Kibele, Johnson Bldg., Muncie, Arch. Noted Aug. 17.

Ind., Ft. Wayne—P. A. Moran Ice Co. plans ice-storage building. About $30,000. A. C. Bishop, Citizens Bank Bldg., Cleveland, Arch.

Mich., Ann Arbor—University of Michigan, Dept. Bldgs. and Grounds, receives bids in November for 2-story, 60x70-ft. laundry. About $15,000.

Mich., Detroit—Booth Fisheries Co. making plans for cold-storage warehouse. P. L. Smithers, 22 East Monroe St., Chicago. Vice-Pres., J. Scott & Co., 2326 Dime Bank Bldg., Detroit, Arch.

Mich., Flint—Flint Spring Water Ice Co., 2025 South Saginaw St., plans 1-story plant. A. C. Bishop, Citizens Bldg., Cleveland, Arch.

Mich., Lansing—Lansing Pure Ice Co. plans storage building. About $20,000.

Mich., Monroe—River Basin Paper Co. plans factory on East Elm Ave. G. H. Wood, Gen. Mgr.

Ill., Chicago—McCormick Estates making preliminary plans for 11-story printing building. About $200,000. Schmidt, Garden & Martin, 104 South Michigan Ave., Arch.

Ill., Moline—Moline City Hospital soon receives bids for laundry and boiler house. About $15,000. Whitsitt & Schulzke, 610 Peoples Bank Bldg., Arch.

Wis., Fond du Lac—Damrow Bros. plans 2-story, 100x100-ft. factory at Brooks and Western Ave.

Wis., Madison—Capital City Culvert Co. plans to rebuild factory. G. L. Schneider, Pres.

Wis., Milwaukee—A. J. Linderman and Hooverson Co. made plans for 6-story, 102x119-ft. addition to plant. About $90,000. Klug & Smith, Mack Bldg., Engr.

Wis., Milwaukee—Peerless Knitting Co., 685 3rd St., making plans for 2-story, 75x120-ft. factory. About $10,000. H. V. Miller, M. & M. Bank Bldg., Arch.

Wis., Waukesha—Waukesha Motor Co. plans additions to plant. H. L. Horning, Secy.

Minn., Albert Lea—Union Stock Yards, Chicago, plans 5-story addition to packing plant. C. T. Barnett, Engr. and Supt. of Constr.

Minn., Anoka—Federal Cartridge and Machinery Co. making plans 2-story factory. About $15,000. Chapman & Magney, 509 Essex Bldg., Minneapolis, Arch.

N. D., Fargo—Equity Co-operative Packing Co. plans packing plant. About $1,000,000.

N. D., Marmarth—Chicago, Milwaukee & St. Paul Ry. plans stock yards and feeding pens. About $40,000. C. F. Loweth, Railway Exchange Bldg., Chicago, Ch. Engr.

Mo., St. Louis—Booth Cold-Storage Co. plans 8-story cold-storage plant. About $130,000.

Ark., Arkadelphia—Arkadelphia Milling Co. plans concrete grain elevator.

Tex., El Paso—J. O. Peyton plans packing plant. About $50,000.

Tex., San Benito—Borderland Sugar Corporation plans additions to plant.

Calif., Modesto—Borden Condensed Milk Co. plans plant. About $100,000.

Ont., Galt—Dominion Building Products, Ltd., plans plant. D. D. Williams, 263 Christie St., Toronto, Pres.

Bids In and Contracts Awarded

Mass., Boston—Philadelphia Storage Battery Co. let contract 2-story, 25x100-ft. battery service building to WILLIAM CRANE, Hayward & Amherst St., Cambridge.

Industrial Works (Continued)

Mass., Cambridge—Concrete Steel Products Co. let contract 2-story, 62x120-ft. warehouse to E. S. BUTTERFIELD & CO., 88 Broad St., Boston. About $10,000.

Mass., Holyoke—Norman Paper Co., 19 Appleton St., let contract addition to CASPER RANGER CO., Bond and Appleton St.

Mass., Springfield—New England Westinghouse Co. let contract factory on Page St. to F. L. LEY & CO., $10,000. Noted Sept. 16.

R. I., Providence—American Silk Spinning Co., Admiral St., let contract 2-story, 83x140-ft. factory to J. W. BISHOP CO.

Conn., Waterbury—Waterbury Farrell Foundry and Machine Co. let contract 6-story, 104x200-ft. factory to TORRINGTON BUILDING CO., Torrington.

N. Y., Amsterdam—Amsterdam Broom Co. let contract 2-story storehouse to C. B. MACHALD, 307 Guy Park Ave. About $12,000.

N. Y., Buffalo—Gerhard-Lang Brewing Co., 400 Best St., let contract 3-story, 86x88-ft. addition bottling plant to MITCHELL O'MALLEY, Breckenridge St. About $35,000.

N. Y., Elmira—American La France Fire Engine Co. let contract 1-story, 40x100-ft. machine shop and tool house to F. H. JOHNSTON CONSTRUCTION CO., 100 La France St. Noted Sept. 14.

N. Y., Elmira—G. L. Curtis, 109 East Church St., let contract 5-story warehouse to W. R. COMPTON REALTY AND CONSTRUCTION CO. About $20,000. Noted May 4.

N. Y., Greenport—Will & Laymer let contract 3-story, 70x178-ft. addition to plant to R. H. HOWES CONSTRUCTION CO., 105 West 40th St., New York. About $300,000.

N. Y., New York—(Manhattan)—C. Adams, 646 West 158th St., let contract 4 garages to W. S. TEMPLE, 401 West 149th St. About $48,000. Noted July 27.

N. J., Kearney—(Arlington post office)—Nairn Linoleum Co., Belgrove Dr., let contract factory to F. KILGUS, 13 South 6th St., Newark.

N. J., Paterson—Paterson Vehicle Co. let contract 3-story, 50x125-ft. addition to A. GLEEK & SON, 65 Garfield Ave.

N. J., Somerville—M. Baum, 282 East Main St., let contract addition to factory to RUNYON FIELD, Boundproof. About $10,000.

Penn., Catasauqua—Lehigh Thermometer Co. let contract 2-story factory to LANDENSLAGER & YOUNGER, Fullerton.

Penn., Chester—Chester Paper Co. let contract additions to R. CUMMINGS, 221 4th Ave., Pittsburgh. Noted Aug. 10.

Penn., Philadelphia—S. S. E. Motor Co. let contract brick machine shop to AUSTIN CO., 14230 Euclid Ave., Cleveland. About $30,000. Noted June 29.

Penn., Philadelphia—Temus Testing Machine Co.; 500 North 12th St., let contract 4-story storage building to LAM BUILDING CO., 1001 Wood St. About $10,500.

Penn., Womelsdorf—Vogue Knitting Co. let contract factory to L. NIEBER, Lansford. About $10,000.

Md., Curtis Bay—Standard Guano Co., 1500 Continental Bldg., Baltimore, let contract addition at Curtis Bay to CHEMICAL CONSTRUCTION CO., Charlotte, N. C. Noted June 29.

Md., Sparrows Point—Bethlehem Steel Co., South Bethlehem, Penn., let contract ovens at Sparrows Point to H. COPPERS CO., Pittsburgh, about $2,000,000. Noted Mar. 2.

D. C., Washington—American Security Co. let contract 4-story, 20x10-ft. warehouse to BOYLE-ROBERTSON CONSTRUCTION CO., Evans Bldg. About $15,000.

D. C., Washington—R. McReymolds & Sons, 1423 East St., N. W., let contract 2-story printing plant and warehouse to J. H. NOLAN, Munsey Bldg., $15,000.

Va., Alexandria—Southern Ry. let contract roundhouse, machine shop, etc., to J. P. PETTYJOHN & CO., Lynchburg. Noted Aug. 24.

W. Va., Fairmont—(Official)—Fairmont Mining Machinery Co. let contract 90x120-ft. factory and 40x60-ft. pattern storage building to McCLINTIC-MARSHALL CO., Pittsburgh. Noted Sept. 21.

W. Va., Martinsburg—Sprinkle Bros. let contract 2-story printing plant to G. F. KEYTON, Martinsburg. About $20,000.

N. C., Roseboro—Williams & McKeithan Lumber Co. let contract planing mill to G. D. BRYAN, Roseboro. About $15,000.

Ga., Albany—Flint River Cotton Mills let contract 3-story addition to V. C. PARKER & SON, Albany. About $27,000.

Ohio, Akron—Summit Auto Garage Co. let contract 2-story garage to AKRON STORAGE AND CONSTRUCTION CO., Akron. About $50,000. Noted June 1.

Ohio, Cleveland—Cleveland Cadillac Co. let contract 2-story, 130x265-ft. service station to CROWELL, LUNDORFF, LITTLE CO., 1951 East 57th St. About $125,000. Noted Aug. 17.

Ohio, Cleveland—Adams Express Co. let contract 2-story garage at St. Clair Ave. and East 17th St., to J. R. GLOYD CO., Prospect Ave. About $25,000. Noted Mar. 2.

Ohio, Cleveland—(Official)—Aluminum Castings Co. let contract plant to AUSTIN CO., 722 Citizens' Bldg., Cleveland.

Ohio, Cleveland—Grabler Manufacturing Co., 6565 Broadway, let contract 60x100-ft. factory to S EMERSON CO., 1041 B. & L. E. Bldg. Noted May 4.

Ohio, Cleveland—Perry-Prospect Co. let contract warehouse at 2111 Prospect Ave. to MASTERS & MULLEN CONSTRUCTION CO., 454 Rose Bldg. About $15,000. Noted Aug. 24.

Ohio, Cleveland—Guggenheim Co., 2152 Superior Ave., let contract 1-story, 90x160-ft. factory to DE HAMMEL CONSTRUCTION CO., American Trust Bldg. About $25,000.

Ohio, Cleveland—Realty Holding Co. let contract 1-story, 106x500-ft. factory to WALTHER ENGINEERING AND CONSTRUCTION CO., 1941 East 66th St. About $110,000.

Ohio, Cleveland—Standard Oil Co., 3225 East 55th St., let contract 2 factory buildings to CROWELL, LUNDOFF, LITTLE CO., 1951 East 57th St. About $250,000.

Ohio, Elyria—Prestell Co. let contract 1-story factory to JOHN KAISER & BROS. CO., Elyria. About $200,000. Noted Sept. 7.

Ohio, Massillon — (Official) — Peerless Drawn Steel Co. let contract factory to AUSTIN CO., 14230 Euclid Ave., Cleveland. Noted May 4.

Ohio, Warren—Packard Electric Co. let contract 3-story addition to HELLER BROS., Youngstown, $65,000. Noted June 22.

Ohio, Youngstown—Henderson Overland Co. let contract garage and salesroom to HENDERSON CONSTRUCTION CO., Dollar Savings Bank Bldg. About $80,000.

Ind., Buffington—Universal Portland Cement Co. let contract 2-story, 125x425-ft. storage building to NASH, DOWDLE CO., 29 South La Salle St., Chicago, $36,000.

Ind., East Chicago—Indiana Box Co. let contract 1-story, 100x200-ft. factory to J. F. RAHM, 227 Calumet Bldg.

Ind., Indiana Harbor—Mark Manufacturing Co. let contract 1- and 2-story rolling mill and power house to STONE & WEBSTER ENGINEERING CO., Boston, Mass. Noted June 22.

Ind., Terre Haute—Calumet Laundry let contract 2-story laundry to CALLAHAN & SHOCK, 3481 Michigan Ave.

Ill., Chicago—Payson Manufacturing Co. let contract 3-story factory at 2916 West Jackson Blvd. to C. F. HOLMAN, Chicago. About $15,000. Noted Feb. 3.

Ill., Chicago—Berkson Bros., 1446 Blue Island Ave., let contract 2-story, 35x50-ft. warehouse to H. GORELNICK, 1522 South Hanlin Ave. About $10,000. Noted Aug. 17.

Ill., Chicago—North American Brewing Co. let contract 3-story, 33x34-ft. addition to stock house to E. L. ARCHIBALD & CO., 111 West Washington St.

Ill., Chicago—Western Plumbing Supply Co. let contract 3-story, 50x124-ft. addition to warehouse to A. WITT, 3009 North Hamlin Ave. About $33,000.

Wis., Madison—J. Nevins let contract 2-story repair shop and garage to L. B. GILBERT, Ellsworth Bldg. About $30,000.

Wis., Milwaukee—Briggs & Stratton Co., 258 Milwaukee St., let contract 5-story, 60x220-ft. rein.-con. and brick factory to O. H. BOSSERT CO., 848 Jackson St. Noted Sept. 14.

Wis., North Milwaukee—J. Greenebaum Tanning Co., Hampton Ave., let contract addition to factory to PAUL RIESEN & SONS CO. Noted Aug. 31.

Wis., West Allis—Steam Appliance Co., 63d and Burnham St., let contract foundry to FOSTER CONSTRUCTION CO.

Minn., Duluth—Standard Oil Co. let contract, machine and repair shop and garage to N. A. BERGSTROM, 114 South 18th Ave. About $10,000.

Minn., Mankato—Dillner & Holbrook Co., 215 South 2d St., let contract 1-story, 55x150-ft. garage to ANDERSON-WHITSON CO.

Minn., St. Paul—Ballard Fireproofing Storage and Transfer Co., 20 East 4th St., let contract 2-story, 83x117-ft. addition to warehouse to H. C. STRUCHEN, Dacota Bldg. About $14,000.

Calif., Alameda—Union Iron Works let contract plate shop on Webster St. to LANGE & BERGSTROM, Sharon Bldg., San Francisco, $75,000. Noted Aug. 17.

Calif., Brawley—Southern Sierras Power Co. let contract ice and cold-storage plant to F. L. SOMERS. About $100,000. Noted May 4.

Calif., Los Angeles—Central Milling Co. let contract 5-story brick flour mill at Commercial and Vignes St. to TAYLOR BROS., 504 Black Bldg. Noted Aug. 3.

Que., Montreal—A. McArthur & Co., Ltd., let contract factory to MacBEAN & WILLIAMS, 29a Belmont St. About $40,000.

Que., St. Jerome—Canadian Consolidated Rubber Co., Ltd., Montreal, let contract addition to plant at St. Jerome to GRAY & DUNN, Montreal.

Ont., Brantford—C. J. Mitchell, 53 Darling St., let contract garage to P. H. SECORD & SONS. About $20,000. Noted Mar. 30.

Ont., Hamilton—Chipman & Hollo Knitting Co., Ltd., 122 Mary St., let contract factory to G. MILLS, King St. About $15,000.

Ont., Port Arthur—Saskatchewan Co-operative Elevator Co., 12th and Smith St., Regina, let contract grain elevator at Port Arthur to BARNETT & MacQUEEN, 203 Cuthbertson Blk., Ft. William. About $800,000. Noted Mar. 30.

Ont., Port Colborne—International Nickle Co. let contract plant to FOUNDATION CO., Montreal. About $5,000,000. Noted Aug. 24.

FEDERAL GOVERNMENT WORK

Proposed Work

Mass., Gloucester — Retaining Basin — Comr. Fisheries, Dept. Commerce, Washington, receiving bids Oct. 6. Noted Aug. 31.

Conn., New London—Dredging—U. S. Engr. Office, New London, receiving bids Oct. 13 for dredging at New Haven, Norwalk and Stamford, Conn. (See adv.)

N. Y., Tompkinsville—Riprap—Lighthouse Inspector, Tompkinsville, receiving bids Oct. 19, Pamrapo Light Station, Newark Bay. (See adv.)

Penn., Philadelphia—Towers—Bureau of Yards and Docks, Navy Dept., Washington, receiving bids Oct. 28 for two 300-ft. steel towers. F. R. Harris, Ch.

W. Va., Wheeling—Lock Gates—U. S. Engr. Office, Wheeling, receiving bids Oct. 21, Dam No. 24, Ohio River. Noted Sept. 7. (See adv.)

La., New Orleans—Piles—Lighthouse Inspector receiving bids Oct. 12 for 250 creosoted square sawed piles. (See adv.)

Tenn., Covington—Drain—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Oct. 12 for tile drain, etc., in U. S. public building.

Ill., Quincy—Levee Work—Mississippi River Comn., 1311 International Life Bldg., St. Louis, Mo., receiving bids Oct. 30 about 40,000 cu.yd. earthworth, East Side Levee and Sanitary Dist. Noted Sept. 21. (See adv.)

Colo., Denver—Excavators—U. S. Rec. Ser., Denver, receiving bids Oct. 16. A. P. Davis, Ch. Engr. (See adv.)

Wash., Seattle—Dredging—U. S. Engr. Office, Seattle, receiving bids Oct. 23, Lake Washington Ship Canal.

Panama—Miscellaneous Supplies—E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Oct. 19.

Panama—Proposals for Equipment for Hydroelectric Station—Maj. E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Oct. 30 for equipment for hydro-electric station, including penstocks, water-turbine-driven exciter, power transformers, induction-motor-driven pumps and traveling crane. (See adv. Sept. 28 issue.)

Hawaii—Pearl Harbor—Crane—F. R. Harris, Ch. Bureau of Yards and Docks, Navy Dept., Washington, receiving bids Nov. 11 for locomotive jib crane of 50 tons for Naval Station.

Bids In and Contracts Awarded

Conn., New London—Dredging—J. S. Packard Dredging Co., Turks Head Bldg. Providence at 7.7c., low bidder 480,000 yd. dredging Duck Island Harbor. Noted Sept. 21.

Fla., Miami—Dredging—Romers Southern Dredging Co., Galveston, at $137,203, low bidder dredging channel connecting Miami city with deep water.

La., Natchitoches—Tank—Treasury Dept. let contract septic tank, etc., at U. S. post office to NOLAND-CLIFFORD CO., Newport News. Noted Aug. 31.

La., New Orleans—Rock—Bids received Sept. 20 for 52,000 tons rock from L. F. Alexander, Audubon Bldg., 17,000 tons delivered at Vicksburg, 90c. ton on cars at quarries, 50c. ton loading on barges; Big Rock Stone and Construction Co., 111 Center St., Little Rock, 35,000 tons delivered at Vidalia, $1.88; Z. Ward, Altus, 17,000 tons delivered at Vidalia, $1.93. Noted Aug. 31.

Ky., Louisville—Gate Valves—Bids received Sept. 23, Lock No. 41, Ohio River, from Independent Bridge Co., 829 Beaver Ave., Pittsburgh, North Side, $27,527; American Car and Foundry Co., Jeffersonville, Ind., $37,480; J. & J. B. Milholland Co., 714 5th Ave., Pittsburgh, $30,246. Noted Sept. 7.

Tenn., Memphis—Levee Work—Mississippi River Comn. let contracts about 2,655,000 cu.yd. levee work to R. L. LEONARD, Memphis, $190,637; ROACH, STANSELL, LAURENCE BROS. & CO., Memphis, $57,600; Rodgers Bros., Memphis, $74,000. Noted Aug. 31.

Mont., St. Ignatius—Canal Work—Low bidder canals and structures on Flathead Project was Pearson Construction Co., Seattle, Wash., Schedule 1, $3,765, Schedule 2, $4,242, Schedule 3, $20,867, Schedule 4, $9,261. Noted Aug. 24.

Colo., Montrose—Canal Work—Bids received Sept. 15 for Ironstone Canal Extension, California Mesa Lateral No. 3, Buttermilk Lateral, Uncompahgre Valley Project, from Osman Construction Co., Montrose, Schedules Nos. 1, 2, 4, 9, 10 and 11, $11,005; Holliday & Elledge, Montrose, Schedules 7, 8 and 12, $8,365. Noted Aug. 24.

Wash., Puget—Power Plant—Low bidders power plant at Naval Torpedo Station, Puget Sound, were Booker, Kiehl & Whipple, Seattle, $46,447; Appling-Griggs Co., Tacoma, $49,670; A. P. Bassett Plumbing and Heating Co. Everett, $46,679. Noted Aug. 24.

Federal Government Work (Continued)

Ore., Portland—Wharf—Lighthouse Inspector let contract repairing wharf at Semiameo Harbor Light Station to AMERICAN PILE DRIVING CO., Everett, Wash., $5,600.

CANALS, DITCHES & IRRIGATION

Proposed Work

N. Y., New York—(Brooklyn)—(Official)—Dredging—L. H. Pounds, Borough Pres., receiving bids Oct. 11 for dredging Newtown Creek Canal.

N. C., Beaufort—Drainage—Virginia-Carolina Farms Co. plans to drain 40,000 acres open land on Beaufort Peninsula. S. Spear & Co., 10 South La Salle St., Chicago, interested.

Fla., Titusville—Drainage—Plans approved for draining 265,000 acres in Upper St. Johns Dist. in Brevard, Osceola and Orange Counties. About $3,000,000. Noted June 1.

Miss., Ripley—(Official)—Drainage—Big Hatchie Drainage Dist., Tippah County, organized and plans being made for 10-mi. open ditch. Caldwell Engineering Co., Jacksonville, Ill., Engr.

Ind., Auburn — Ditch — Bd. Comrs. De Kalb County receiving bids Oct. 23 for Lemuel Nelson et al. Drain. J. Gunsenhouser, Supt. Constr.

Ind., Ft. Wayne—Ditch—Allen County receiving bids Oct. 7 for Schlemmer Ditch. About $6,051. R. W. Guenther, Supt. Constr. Noted Sept. 14.

Ind., Kokomo—Ditch—Howard County receiving bids Oct. 7 for E. J. Troyer et al Ditch. E. Hunt, Comr. of Drainage.

Ill., Tuscola—Drainage—Okaw River Drainage Dists. of Garrett and Bourbon Townships plan drainage system. About $100,000.

Ill., Vermilion—Ditch—Edgar County receiving bids Oct. 10 for cleaning, deepening and enlarging ditch, 71,460 cu.yd. C. F. Helman, Paxton, Engr. A. H. Chambers, Vermilion, County Audr.

Ill., Woodstock—Drainage—Coon Creek Drainage Comrs. made plans for draining 6,000 acres. About $78,000. A. L. Webster, Wheaton, Engr.

Iowa, Muscatine — Settling Basin — Muscatine and Louisa Counties plan settling Basin at foot of Michael Creek in Drainage Dist. No. 13.

Iowa, Rockwell City—Drainage—Surveys made for Big Cedar Drain Project, 206,000 acres, in Sac, Calhoun, Pocahontas and Buena Vista Counties. S. F. Moeller, Rockwell City, Consult. Engr. Noted May 4.

Iowa, Sioux City—Ditch—County receiving bids Oct. 9 for Smithland Drainage Dist. E. E. Hosmer, Sioux City, County Audr.

Iowa, Sioux City—Ditch—County receiving bids Oct. 9 for Boyer Drainage Dist. E. E. Hosmer, Sioux City, County Audr. Noted May 4.

Minn., Benson—Ditch—Swift County receiving bids Oct. 11 for County Ditches Nos. 25 and 27. S. B. Gardner, Benson, Engr.

Minn., Benson—Ditches—Swift County receiving bids Oct. 12 for County Ditches Nos. 29 and 33. S. B. Gardiner, Benson, Engr.

Minn., Crookston—Ditch—Polk County receiving bids Oct. 18 for County Ditch No. 103, 45,108 cu.yd. excavation. About $5,648. H. J. Welte, Crookston, County Audr.

Minn., Crookston—Ditch—Polk County receiving bids Oct. 18 for Ditch No. 104. About $4,105. H. J. Welte, Crookston, County Audr.

Minn., Fairmont—Ditch—Martin County receiving bids Oct. 10 for Judicial Ditch No. 60. About $50,232. N. C. Nolte, Fairmont, County Audr.

Minn., Fairmont—Ditch—Martin County receiving bids Oct. 10 for Judicial Ditch No. 71. About $9,198. N. C. Nolte, Fairmont, County Audr.

Minn., Moorhead — (Official) — Ditch — Clay County receiving bids Oct. 13 for Ditch No. 2, about $6,106. A. O. Houglum, Moorhead, County Audr.

Minn., Moorhead — (Official) — Ditches — Clay County receiving bids Oct. 13 for Ditches Nos. 26, 27 and 38. About $25,000. A. O. Houglum, Moorhead, County Audr. Nofed Sept. 7.

Minn., Morris—Ditch—Stevens County receiving bids Oct. 11 for Ditch No. 25. About $10,171. C. R. Wollthan, Morris, County Audr. Noted Sept. 21.

Minn., Morris—Ditch—Stevens County receiving bids Oct. 11 for Ditch No. 27. About $4,403. C. R. Wollthan, Morris, County Audr.

Minn., Morris—Ditch—Stevens County receiving bids Oct. 12 for Ditch No. 29. About $9,635. C. R. Wollthan, Morris, County Audr.

Minn., Morris—Ditch—Stevens County receiving bids Oct. 12 for Ditch No. 33. About $8,492. C. R. Wollthan, Morris, County Audr.

Minn., Oliva—Ditch—Renville County receiving bids Oct. 16 for County Ditch No. 14. J. L. Johnson, Olivia, County Audr.

Minn., Olivia—Ditch—Renville County receiving bids Oct. 16 for Ditch No. 70. About $26,436. J. L. Johnson, Olivia, County Audr.

Minn., Olivia—Ditch—Renville County receiving bids Oct. 17 for County Ditch No. 63. J. L. Johnson, Olivia, County Audr. Noted Aug. 3.

S. D., Madison—Ditches—Lake County soon receives bids for Ditches Nos. 1 and 2. About $20,000. M. D. McGillvray, Madison, County Audr. Noted July 27.

Mo., Kahoka—Drainage—E. T. Perkins Engineering Co. made plans for Gregory Drainage Dist. in Clark and Lewis Counties. About $150,000 bonds sold. A. J. Ruddick, Pres. Bd. Comrs.

Mo., Orrick—(Official)—Drainage—City defeated $8,500 bonds for draining 80 acres. E. B. Murray & Co., Kansas City, Engr. Noted Sept. 21.

Tex., McKinney—Reclamation—Collins County Levee Improvement Dist. No. 1 making plans for reclaiming 4,000 acres in valley of Pilot Grove Creek. About $42,000. Noted Sept. 7.

Idaho, Emmett—Drainage—Bd. Comrs. Canyon County Drainage Dist. No. 1 receiving bids Nov. 2 for drainage canal. W. W. Nusbaum, Secy. Canyon County Drainage Dist. No. 1.

Calif., Modesto—Irrigation—Waterford Irrigation Dist. retained E. N. Bryan, Engr., to make plans for irrigation system. About $254,000.

Calif., Richmond — Reclamation — City made agreement with Bay Counties Land Co. by which $100,000 is available for dredging and reclamation work in inner harbor.

Calif., Sacramento — Reclamation — Netherland Reclamation Dist. plans pumping plant. P. M. Ashley, Engr.

Bids In and Contracts Awarded

Mass., Lynn—Dredging—Waterways and Pub. Lands Comn., Boston, received bids, Saugus River Channel, from Gilbert H. Harris, 262 Washington St., Boston, 49c. cu.yd.; Boston Dredging Co., 40 Central St., Boston, 50c. cu.yd.; Bay State Dredging and Contracting Co., 247 Atlantic Ave., Boston, 83c. cu.yd.

N. Y., New York—(Brooklyn)—Dredging—R. A. C. Smith, Comr. Docks, Pier A, North River, received bids Oct. 2, head of Mill Basin, Jamaica Bay, Contract No. 1462, 450,000 cu.yd., from P. Sanford Ross, Inc., 135 Bay St., Clifton, S. I., 11.3c. cu.yd.; Atlantic Gulf and Pacific Co., 11.47c.; W. H. Gahagan, 13c. Noted Sept. 28.

S. C., York—Drainage—Turkey Creek Drainage Dist. No. 1, York and Chester Counties, let contract 26 mi. ditches to L. O. WHITE, Statesville, $50,000. Noted Sept. 14.

Ga., Carnesville—Dredging—Broad River Drainage Dist. let contract, Broad River, to LONG & COOPER. About $95,000.

Ga., Toccoa—Dredging—Contract dredging Broad River let to THOMPSON & MOSELY, Greensboro, $81,400.

Tenn., Alamo—Drainage—Contract Second South Forked Deer Drainage Project let to STERNBERG BROS., St. Louis. Noted May 25.

Ind., Sullivan—Ditch—Contract main ditch and 7 laterals in Sullivan and Vigo Counties let to J. B. DORRIS, Sullivan, $24,145.

Mich., Saginaw — Drainage — Contract Lamb Creek Drain excavation, let to WOOLMAN CONSTRUCTION CO., Port Huron, $30,000.

Iowa, Carroll—Drainage—Carroll County let contract drainage ditch, 225,000 cu.yd. earth work, to CALLAHAN WALKER CONSTRUCTION CO., Omaha, Neb.

Iowa, Mason City—Ditch—Contract Drainage Ditch No. 45 let to J. BRASK, Clear Lake, $7,246.

Iowa, Nevada—Drainage—Contract Sherman Township Drain No. 76 let to BLAKEMORE & SCOTT, Nevada, $18,487.

Minn., Ada—Ditch—Norman and Polk Counties let contract Judicial Ditch No. 53 to SECURITY DREDGE CO., Minneapolis, $92,667.

Minn., Buffalo—Ditches—Contract 2 ditches, 100,000 cu.yd. earth work, let to AJAX DREDGE CO., Glencoe, $15,500. Noted Aug. 17.

Minn., Detroit—Ditch—Contract Ditch No. 16 let to J. C. MORIARTY, Sioux City, Iowa.

Minn., Northfield—Dredging—Carleton College let contract dredging Two Lakes to NORTHERN DREDGE AND DOCK CO., 300 Security Bldg., Minneapolis.

Minn., St. James—(Official)—Ditch—Watonwan County let contract Judicial Ditch No. 11 to P. PAULSEN, Carroll, Iowa. Noted Sept. 14.

Minn., Shakopee—Ditch—Scott County let contract to J. McKILLIP, Faribault, $15,000. Noted Aug. 24.

Idaho, Caldwell—Irrigation—Contract irrigation system for Caldwell Irrigation Dist. let to MORTON & LEIGHTY. About $6,700. Noted May 25.

MISCELLANEOUS

Proposed Work

Mass., Boston—(Mattapan)—Fire Station—City making plans. J. McGinniss, 16 Arlington St., Boston, Arch.

Mass., Boston—Park Improvements—Comr. Pub. Wks. receiving bids Oct. 9 for dredging, filling, sewerage, etc., for Strandway and Old Harbor improvements. E. F. Murphy, Comr. Pub. Wks. About $780,000. Noted Sept. 21.

Mass., Fall River—Dock—State Comn. on Waterway and Pub. Lands, Boston, appropriated $350,000 for docks.

Mass., Revere—Fire Station—City receiving bids Oct. 19, 2-story, 40x52-ft., Freeman St. About $15,000. MacNaughton & Robinson, 101 Tremont St., Boston, Arch. Noted Sept. 28.

N. Y., Little Falls—Elimination Grade Crossing—City plans. G. I. Oakley, City Engr.

N. Y., New York—(Brooklyn)—(Official)—Track Floors and Platforms—Pub. Ser. Com. receiving bids Oct. 19 for concrete track floors and platforms over the mezzanines of 11 stations on Culver Rapid Transit R.R., between 37th St. and 10th Ave. and intersection of Gravesend Ave. and Ave. X.

N. Y., New York—(Manhattan)—Grade Improvements—City plans to change grade at 34th St and Park Ave.

N. Y., Rochester—(Official)—Subway—New York Central R.R. and Buffalo, Rochester & Pittsburgh Ry. receives bids in spring for subway at Brown St. About $300,000. G. W. Kittredge, Grand Central Terminal, New York, Ch. Engr. New York Central R.R. Noted Sept. 21.

N. J., Bayonne—Pier—Texas Oil Co. making plans, rein.-con.

N. J., Haddonfield—Dam—City making plans. About $5,000. Remington & Vosbury, 7th and Market St., Camden, Engr.

N. J., Spring Lake Beach—Improving Beach Front—Borough plans to improve beach front and build jetties and bulkhead. About $100,000.

N. J., Trenton—Wall—Bd. Mgrs. at New Jersey State Hospital receiving bids Oct. 13, concrete. S. Scammell, Secy.

Penn., Dalles—Swimming Pool—W. J. Newberry making plans, 1-story, rein.-con. Newberry & Foster, Miners Bank Bldg., Wilkes-Barre, Arch.

Penn., Pittsburgh—Retaining Wall—City plans, Mountford Ave. J. G. Armstrong, Mayor.

Penn., Pittsburgh — Speedway — Pittsburgh Speedway Association plans automobile and motorcycle speedway. About $1,000,000. J. B. Callahan, Pres.

Md., Sharpsburg—Fence—New York Monuments Com. soon receives bids for fence around New York State Reservation. L. R. Stegman, 116 Nassau St., New York, Chn.

Va., Norfolk—Pier—Chesapeake & Ohio Ry. plans, 52x595-ft., concrete, foot of Tazewell St. About $100,000. F. I. Cabell, Richmond, Ch. Engr. B. F. Mitchell, Seaboard Bank Bldg., Arch.

W. Va., Wheeling—Retaining Wall—City, West Virginia Traction and Electric Co. and Baltimore and Ohio Railroad Co., plans. C. B Cooke, City Engr., R. N. Begien, Ch. Engr. Baltimore & Ohio Railroad Co.

Ga., Augusta—(Official)—Bulkhead and Gates—River and Canal Comrs. receiving bids Oct. 10, rein.-con., for water control across Buttler's Creek. N. Wingfield, 811 Ellis St., Ch. Engr. (See adv.)

Fla., Ormond—Wharf—City plans $35,000 bond issue. G. H. Rigby, Mayor.

Miss., Natchez—Breakwater—City plans, Mississippi River. O. W. Fowler, City Engr.

La., Harvey—Pipe Lines—Texas Oil Co. granted permission for 2 pipe lines.

Ohio, Cleveland—(Official)—Comfort Station—City receiving bids Oct. 14, St. Clair Ave. and East 105th St. R. Hoffman, City Engr. F. H. Betz, City Arch., 604 City Hall. Noted Sept. 28.

Ohio, Cleveland—Subway—City plans $10,000,000 bond issue for subway system beneath entire downtown section. R. Hoffman, City Engr.

Ohio, Gates Mills—Polo Field—W. C. White making plans. About $25,000. A. D. Taylor, 1900 Euclid Ave., Cleveland, Arch.

Ohio, Lakewood—Park Improvements—City votes Nov. 17 on $15,000 bonds. E. A. Fisher, City Engr.

Ohio, Middletown—Park Improvements—City votes Oct. 11 on $35,000 bonds. W. C. Morrison, City Engr. Noted July 6.

Ohio, Portsmouth—Earth Removal—Dir. Pub. Ser. receiving bids Oct. 6 for removal of 10,000 cu.yd. earth from slip known as Damarin Hill. J. E. Fritz, Clk.

Ohio, Proctorville—Grand Stand—City receiving bids Oct. 7, Fair Grounds. About $7,000.

Ohio, Youngstown—Dam—Park Com. made plans for dam in Crandall Park. F. M. Lillie, City Engr.

Ill., Blue Island—Swimming Pool—Blue Island Park Bd. plans. About $10,000.

Ill., Quincy—Pavilion—City plans, South Park. About $12,000. F. L. Hancock, City Engr.

Wis., Ashland—Ore Dock—Chicago & Northwestern Ry. submitted plans to Dock and Harbor Bd. for third ore dock. About $1,500,000. W. H. Finley, Jackson Blvd. and Franklin St., Chicago, Ch. Engr. Noted Mar. 23.

Wis., Fond du Lac—Park Improvements—City votes Nov. 7 on $50,000 bonds. J. S. McCullough, City Engr.

Wis., Milwaukee—Animal House—Bd. Park Comrs. making plans, 1-story, 48x192-ft., rein.-con., Washington Park. About $50,000. A. C. Clas, Colby-Abott Bldg., Arch.

Wis., Superior—Coal Docks—Berwind Fuel Co. plans additions. About $30,000.

Iowa, Des Moines—Dam—Plans being made to rebuild Center St. dam, spillway and floodgate.

Minn., St. Cloud—Power Flusher—City soon receives bids for 2-horse-drawn power flusher to be used in washing down streets that have been paved. C. H. West, City Engr.

Minn., St. Paul—Bathhouse—City plans, Lake Phalen. About $40,000.

Miscellaneous (Continued)

Kan., Wichita—Pipe Line—Western Pipe Line Co. plans pipe line from Augusta-Eldorado oil fields to Wichita.

Neb., Norfolk—(Official)—Park—City voted $15,000 bonds. H. H. Tracey, City Engr. Noted Sept. 21.

Mo., Excelsior Springs—Park Improvements—City plans $20,000 bond issue.

Mo., St. Louis—Comfort Station—City plans, Benton Park. E. R. Kinsey, Pres. Bd. Pub. Ser.

Mo., St. Louis—Park Building—Comr. Pub. Wks., Park Dept., receiving bids about Oct. 15, Forest Park. About $8,000. T. P. Barnett & Co., 705 Olive St., Arch.

Tex., Beaumont—Wharf—City voted $230,000 bonds for Unit No. 2 of wharf and 1,000 ft. of quay to take care of lumber cargoes. Noted Aug. 17.

Tex., Corpus Christi—Improving Water Front—City plans seawall, esplanade, etc. About $140,000. Fill about $100,000. R. Miller, Mayor, and H. A. Stevens, City Engr.

Tex., Denison—Swimming Pool—City plans, Forest Park. About $7,500. A. P. Clenny, City Clk.

Wash., Aberdeen—Natatorium—C. E. Troutman, Arch., receiving bids Nov. 1, 2-story, 100x130-ft. About $30,000.

Wash., Seattle—Bulkhead and Filling—Park Bd. making plans for bulkheading and filling area uncovered by lowering of Lake Washington. H. L. McGillis, Engr.

Ore., Portland—Natatorium and Bathhouse—City retained Root & Kerr, Arch., Henry Bldg., to make plans. About $25,000.

Ont., Chippawa—Dock—Norton Co. plans, concrete and timber.

Bids In and Contracts Awarded

Mass., Somerville—Platforms and Rest Room—Boston & Maine R.R. let contract to EDWARDS & MONAHAN CO., 6 Beacon St., Boston.

R. I., Phillipsdale—(Pawtucket post office)—Wharf and Dredging—Contract wharf south of Ten Mile River and dredging Pawtucket River let to C. S. BIRD, Walpole, Mass.

N. Y., New York—(Bronx)—(Official)—Pier—City let contract repairing pier at foot of Fordham Ave., City Island, to A. M. HAZELL, INC., 90 West St., Manhattan, $7,836. Noted Sept. 7.

N. Y., New York—(Bronx)—(Official)—Yard—Bids received Sept. 28 for 239th St. yard of Route 18 part of White Plains Rapid Transit R.R. from T. J. Buckley Construction Co., $372,893; T. Crimmins Contracting Co., $387,050; D. E. Conners, $407,650. Noted Sept. 14.

Md., Ft. McHenry—(Baltimore post office)—Monument—Francis Scott Key Monument Association let contract to C. H. NIEHAUS, New Rochelle, N. Y., $75,000. Noted June 15.

Miss., Belzoni—Levee—Contract 1¾ mi. levee, 21,000 cu.yd., let to T. M. HENNINGWAY, Jackson, 22c. per cu.yd.

La., New Orleans—Levee—State Bd. Engrs. let contract to D. B. HEARIN & SON, Baton Rouge, 16c. per cu.yd., for Stevenson to Jack Strange Levee, 80,000 cu.yd. in Parish St. John the Baptist.

La., New Orleans—Levee—State Bd. Engrs. let contract to LOWER COAST CONSTRUCTION CO., Pointe a la Hache, for Tarras Levee, 65,000 cu.yd., Parish Pointe Coupee, 19.8c. cu.yd., Cosse to Martin Levee, 40,000 cu.yd., Parish of Plaquemine, 19.4c. cu.yd.

Ky., Hickman—Levee—Fulton County Levee Bd. let contract repairing Mile No. 4 of Reelfoot Levee let to ROACH, STANSELL, LAWRENCE BROS. & CO., Memphis, Tenn. About $35,000. Noted June 8.

Ohio, Bergholz—Concrete Wall—County Comrs. let contract to E. STEITZ, Richmond. Noted Sept. 7.

Ohio, Logan—Mausoleum—Ohio Mausoleum Co., Galion, let contract, 1-story, 34x70-ft., to F. J. HERMAN, 824 East Bancroft St., Toledo. About $23,000.

Mich., Hancock—Bathhouse—Quincy Mining Co. let contract, 3-story, to A. VERVILLE, Hancock.

Ill., Chicago—Ice Skating Rink—Springer Wood Co. let contract to DARLING & EITEL CO., 205 West Randolph St. About $231,000. Noted Sept. 7.

Ill., Evanston—(Official)—Seawall—Comr. Pub. Wks. let contract, along shore Lake Michigan, to GREAT LAKES DREDGE AND DOCK CO., Chicago. Noted Sept. 21.

Kan., Halstead—Dam—City let contract, Riverside Park, to J. T. HARVEY, Wichita, $5,503. Noted Aug. 10.

Neb., Lincoln—Tunnel—State Hospital for Insane let contract to G. E. TOBIN. About $5,000. Noted Sept. 21.

Calif., Lodi—Bathhouse—City let contract to PHILBRICK & COLVIN.

Calif., Saticoy—Protection Work—R. M. Davis, Saticoy, $7,415, only bidder for Sect. B, portion of protection work in Saticoy Protection Dist.

B. C., Vancouver—Seawall and Coal Harbor Causeway—Contract let to COTTON CO., Ltd., Vancouver, $40,983.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Maine, Augusta—Hospital—Augusta State Hospital receives bids Oct. 18 for addition. About $40,000. W. G. Bunker, 17 Augusta Trust Bldg., Arch.

N. H., Nashua—Amoskeag Realty Co. plans 3-story, 70x153-ft. building on Main St.

Mass., Boston—Union Rescue Mission making plans for 4-story building at 1-2 Dover St. P. S. Avery, 120 Tremont St., Arch.

Mass., Bridgewater—School—City making plans. About $50,000. R. D. Kimball Co., 6 Beacon St., Boston, Engr.

Mass., Canton Hotel—Plymouth Rubber Co. plans 3-story, 70x100-ft., on Washington St.

Mass., Southbridge—School—City making plans, 2-story, 57x95-ft. Peabody & Stearns, 53 State St., Boston, Arch. Noted July 20.

R. I., Narragansett Pier—Hospital—J. H. Hanan, New York, plans 3-story, brick. About $50,000.

R. I., Providence—Hospital—Homeopathic Hospital of Rhode Island plans. F. S. Waite, City Hall, Pres.

R. I., Providence—College—Dominican Order making plans. About $2,000,000.

Conn., Waterbury—Office—Chase Rolling Mill Co. and Chase Metal Works plans, Grand and Leavenworth St.

N. Y., Amsterdam—School—City voted $85,000 bonds. Noted Apr. 13.

N. Y., Batavia—High School—City voted $200,000 bonds.

N. Y., Buffalo—School—Bd. Education plans School No. 31 on Emslie St., about $400,000.

N. Y., Cohoes—High School—City voted $200,000 bonds. Noted Aug. 24.

N. Y., Freeport—Theater and Store—Frank Tinney, Long Beach Ave., making plans, Merrick Rd. and Grove St. About $75,000. H. C. Crane, 2325 Dime Bank Bldg., Detroit, Mich., Arch.

N. Y., New York—(Manhattan)—(Official)—School—Supt. School Bldgs. at office Dept. Education, Park Ave. and 59th St., receiving bids Oct. 9. C. B. J. Snyder, Supt. School Bldgs.

N. Y., Pawling—School—Bd. Education plans, 2-story, 59x80-ft. About $55,000. A. L. Hopkins, 101 Park Ave., New York, Arch.

N. Y., Potsdam—School—State Normal and Training School receives bids Oct. 31, 3-story, 170x280-ft. About $300,000. L. F. Pilcher, Capital, Albany, Arch.

N. Y., Rochester—Church—Lake Avenue Baptist Church making plans, 2-story. About $110,000. Fotte, Headly & Carpenter, Carter Bldg., Arch.

N. Y., Syracuse—Y. M. C. A. making plans for 4-story building. About $150,000. Taylor & Bonta, 615 Gurney Bldg., Arch.

N. J., Asbury Park—Bank—Seacoast Trust Co. plans, Bon St. and Mattison Ave. About $100,000 is now available. J. M. Ralston, Pres.

N. J., Dover—High School—Bd. Education rejected bids. Plans being revised and new bids will be received. About $100,000. Noted Aug. 31.

N. J., Newark—McKim, Mead & White, Arch., 101 Park Row, New York, made plans for memorial building at Broad, Orchard, Camp and Washington St. About $1,000,000.

N. J., Red Bank—Y. M. C. A. plans building. About $50,000. S. K. Lipscomb, Secy. Y. M. C. A. of New Brunswick, interested.

Penn., Conshohocken—Club House—Penn Club made plans, 3-story, 30x75-ft., 2d Ave. and Fayette St. H. Reinhold, Jr., 1309 Walnut St., Philadelphia, Arch.

Penn., Harrisburg—Hotel—Chamber of Commerce Hotel Com. plans, 3rd and Walnut St. About $1,000,000. E. L. McColgin, Kunkel Bldg., interested.

Penn., Johnstown—Hospital—Mercy Hospital receiving bids Oct. 15, 4-story, 80x100-ft. addition. About $50,000. H. Hornbostel, William St., New York, Arch. Noted Aug. 17.

Penn., Munhall—High School—Bd. Education receiving bids Oct. 16, 2-story, 50x80-ft. addition. About $75,000. W. G. Eckles, Lawrence Savings and Trust Bldg., New Castle, Arch. Noted Mar. 2.

Penn., Overbrook—Seminary—St. Charles Borromeo Seminary making plans, 3-story addition. About $50,000. P. Monaghan, Drexel Bldg., Philadelphia, Arch.

Penn., Pittsburgh—School—Bd. Education soon lets contract, West End Sheraden High School. About $265,000. McClure & Spahr, 320 4th Ave., Arch. Noted Sept. 28.

Penn., Uniontown—High School—Bd. Education making plans, 3-story. About $60,000. H. W. Altman, 525 First National Bank Bldg., Arch.

D. C., Washington—Smithsonian Institution soon receives bids for 1-story, 280x1,700-ft. art gallery institute. About $1,000,000. C. A. Platt, 11 East 24th St., New York, Arch.

Va., Staunton—Sunday School and Church—First Presbyterian Church making plans, 3-story 70x100-ft., addition. About $50,000. A. Kelsey, Perry Bldg., Philadelphia, Arch.

Va., Suffolk—Club House—Laurel Cliff Country Club plans, 2-story. J. H. Corbitt, Pres.

Va., Suffolk—Armory—City plans, 1-story. About $40,000. R. H. Brinkley, City Engr.

S. C., Gaffney—Hotel—P. C. Poole, G. G. Byers, R. E. Grabel and others interested. About $50,000.

Ga., Griffin—School—City voted $65,000 bonds.

Miss., Gulfport—Mississippi Centennial Exposition receiving bids Oct. 10 for buildings.

Tenn., Memphis—Goodwyn Institute making plans for addition. About $100,000. J. Gaisford, Arch.

Ohio, Akron—Schools—City soon votes on $500,000 bonds for 5 schools.

Ohio, Cleveland—School—City votes Nov. 7 on $75,000 bonds for addition to Corlett School. W. R. McCormack, Arch. F. G. Hogen, East 6th St. and Rockwell Ave., Dir. Pur. Schools.

Ohio, Cleveland—School—City votes Nov. 7 on $75,000 bonds for addition to Moulton School. W. R. McCormack, Arch. F. G. Hogen, East 6th St. and Rockwell Ave., Dir. of Schools.

Ohio, Cleveland—School—City votes Nov. 7 on $100,000 bonds for addition to Woodland School. F. G. Hogan, Dir. Pub. Schools, East 6th St. and Rockwell Ave.

Ohio, Columbus—Dormitory—Franklin County Children's Home making plans. W. H. Tremaine, Arch.

Ohio, Cuyahoga Falls—Gymnasium and Swimming Pool—Methodist Church plans. About $75,000.

Ohio, Dayton—Dayton Aerie of Eagles plans addition to building on South Main St. About $50,000.

Ohio, East Palestine—Hotel and Club House—W. C. Owen & Co., Arch., 408 Euclid Bldg., Cleveland, making plans, 4-story. About $75,000.

Ohio, Elyria—Depot—New York Central R.R. plans, East Ave. and Tremont Ave.

Ohio, Kenmore—High School—Bd. Education receives bids Oct. 23, 2-story. About $75,000. I. W. Fiscus, Clk. Noted June 29.

Ohio, Norwood—School—City retained Bausmith & Drainie, Arch., 901 Gerke Bldg., Cincinnati, to make plans. About $150,000 bonds voted. Noted Aug. 31.

Ohio, Pleasant City—High and Grade School—Bd. Education receiving bids Oct. 11, 2-story, 65x110-ft. A. McFadyen, Pres. Noted Sept. 21.

Ohio, Portsmouth—(Official)—School—Bd. Education receiving bids Oct. 27. About $60,000. Ritter & Bates, Arch. Noted Sept. 21.

Ohio, Rocky River—Motion Picture Studio—Midland Film Co. making plans. About $200,000. W. C. Owen & Co., 408 Euclid Bldg., Cleveland, Arch.

Ohio, Wellsville—High and Grade School—Bd. Education receiving bids Nov. 1, 2-story, 60x125-ft. About $100,000. Howard & Merriam, 8 East Broad St., Columbus, Arch. Noted June 8.

Ohio, West Park—Grade Schools—Bd. Education receiving bids Oct. 9, 2-story, 40x84-ft. About $50,000. Barter, Coghlan & Saunders, 311 Electric Bldg., Cleveland, Arch. Noted May 25.

Ohio, Wilmington—Theater—C. L. Murphy, 6157 Sheridan Rd., Chicago, receives bids Oct. 13, 2-story, 56x174-ft. About $60,000. Dittoe, Fahnestock & Ferber, 103 Carew Bldg., Cincinnati, Arch.

Ind., Ft. Wayne—Church—Bethany Presbyterian Church making plans, 1-story, 60x110-ft. About $60,000. H. E. Flichinger, 1010 Calhoun St., Arch.

Ind., Garrett—Hospital—Sacred Heart Hospital plans addition. About $50,000.

Ind., Huntington—Order of Moose plans building. About $75,000.

Ind., South Bend—Chemistry Hall—Notre Dame University plans to rebuild.

Ind., Terre Haute—School—Bd. Trustees Indiana State Normal School receives bids Oct. 7, 3-story, concrete and brick. J. Jump, Secy. Noted Aug. 24.

Mich., Battle Creek—School—Bd. Education making plans, 2-story. About $60,000. J. D. Chubb, 109 North Dearborn St., Chicago, Arch.

Mich., Bay City—Hospital—Mercy Hospital, 15th and Howard St., made plans for 4-story addition. About $100,000. Pratt, Bickel & Campbell, Bay City, Arch. Noted Sept. 21.

Mich., Lansing—High School—Bd. Education making plans, 2-story. About $80,000. J. N. Churchill, Oakland Bldg., Arch. Noted Aug. 10.

Mich., Midland—Donor Dow Chemical Co. making plans for 2-story community building. About $50,000. Cowles & Mutscheller, 114 Washington St., Saginaw, Arch.

Mich., Ypsilanti—Hospital—City receiving bids Oct. 12. S. Samon, City Clk. E. R. Dunlap, Detroit, Arch.

Ill., Chicago—Hall, School and Church—St. Justine Martyr Church plans. About $40,000. J. McCarthy, 139 North Clark St., Arch.

Ill., Chicago—School and Church—E. Brielmaier & Sons Co., Arch., Association Bldg., making plans, 2-story. About $60,000.

Buildings (Continued)

Ill., Chicago—Terminal—Illinois Central R.R. plans. About $20,000,000. A. S. Baldwin, Ch. Engr.

Ill., Chicago—Theater, Store and Office Building—R. J. Schaefer receiving bids about Oct. 15, 3-story, 125x208-ft. About $200,000. H. L. Newhouse, 4630 Prairie Ave., Arch.

Ill., Chicago—Lodge and Store—Flynn Bros. soon receives bids, 3-story, 68x80-ft. About $65,000. Worthmann & Steinbach, 155 North Clark St., Arch.

Ill., Granville—High School—Bd. Education receiving bids Oct. 10, 3-story, 75x117-ft. About $40,000. E. A. Payne, Carthage, Arch. Noted Sept. 7.

Ill., Oak Park—Sunday School and Church—First Congregational Congregation making plans, 2-story. About $125,000. Holmes & Flynn, 8 South Dearborn St., Chicago, Arch.

Ill., Williamsville—High School—Bd. Education making plans, 2-story, 75x114-ft. About $50,000. J. A. Scribbons, Powers Bldg., Decatur, Arch.

Wis., Kenosha—Hotel—Matt Kirar making plans, 3-story, 40x120-ft. Wolf & Ewens, 437 East Water St., Milwaukee, Arch.

Wis., Kenosha—Club House—B. P. O. E. No. 750 receives bids Oct. 15, 3-story. About $100,000. R. A. Messmer & Bro., Majestic Bldg., Milwaukee, Arch. Noted July 27.

Wis., Oshkosh—School—State Normal School receiving bids Oct. 10, 3-story, 135x143-ft., brick and rein.-con. addition. W. Kiddle, Secy. State Normal School, Madison.

Wis., Waukesha—Schools—City voted $250,000 bonds.

Iowa, Cedar Rapids—Dormitory and Dining Hall—Coe College making plans, 4-story, 63x181-ft. About $90,000. E. L. Tilton, 32 Broadway, New York.

Iowa, Des Moines—Hospital—Dubuque County soon votes on $75,000 bonds.

Iowa, Havelock—School—Consolidated School Dist. making plans, 2-story, 62x152-ft. About $55,000. Martin & Hoskins, Storm Lake, Arch.

Iowa, Iowa City—High School—Bd. Education making plans, 2-story. About $60,000. G. L. Lockhart, 285 Endicott Bldg., St. Paul, Arch. Noted June 22.

Iowa, Mallard — School — Consolidated School Dist. plans, 2-story, 70x112-ft. About $45,000. Martin & Hoskins, Storm Lake, Arch.

Iowa, Miller—Courthouse—Hand County votes in November on $100,000 bonds.

Iowa, Sioux City—Temple and Office—Masonic Building Corporation making plans, 1-story, 100x150-ft. About $300,000. Beuttler & Arnold, 609 Security Bldg., Arch.

Iowa, Valley Junction—High School—Bd. Education Independent School Dist. receiving bids Oct. 24. About $45,000. Proudfoot, Bird Rawson, 810 Hubbell Bldg., Des Moines, Arch Noted June 29.

Minn., Canby—School—City receiving bids Oct. 18. G. L. Lockhart, 285 Endicott Bldg., St. Paul, Arch. Noted May 25.

Minn., Duluth—Club House—Knights of Columbus plans. About $75,000. J. Brown, Trustee.

Minn., St. Cloud—City Hall—City receiving bids Nov. 12. About $60,000. G. G. Mugnuson, City Clk.

Minn., St. Paul—Theater—Silas Jacobson, Arch., Capital Bank Bldg., making plans, 1-story, 61x135-ft. About $40,000.

Minn., Wacomia—High School—Bd. Education receiving bids Oct. 20, 2-story. About $45,000. K. T. Snyder, Plymouth Bldg., Minneapolis, Arch.

Kan., Anthony — High School — City making plans. About $45,000. Markgraf & Mampe, 413 New Ridge Bldg., Kansas City, Mo., Arch. Noted July 20.

Kan., Council Grove—High School—Bd. Education making plans. About $41,000. J. H. Felt & Co., Grand Ave. Temple, Kansas City, Mo., Arch.

Kan., Ellsworth—State plans old ladies' home. About $50,000. C. H. Chandler, Topeka, State Arch.

Kan., Leavenworth—City Hall and Auditorium—City defeated $150,000 bond issue. Noted Aug. 10.

Kan., Russell—School—City voted $40,000 bonds.

Kan., Wichita—Jail—County Comrs. making plans. About $100,000. H. M. Barrett, County Clk. Noted Sept. 7.

Neb., Grand Island—Passenger Station—Union Pacific R.R. made plans. About $100,000. C. Ware, Omaha, Gen. Mgr.

Neb., Havelock—High School—City votes in November on bonds. W. F. Gernandt, 437 Keeline Bldg., Omaha, Engr. F. B. Young, Secy. Noted Aug. 10.

Neb., Omaha—Club House—Omaha Athletic Club making plans, 8-story. About $400,000. J. Latenser & Sons, 626 Bee Bldg, Arch. Noted Mar. 16.

Neb., Omaha—High School—Bd. Education making plans, 2-story. About $100,000. J. Latenser & Sons, 6263 Lee Bldg., Arch.

S. D., Clear Lake—Courthouse—Deuel County receives bids Oct. 16. J. M. Wols, Clear Lake, County Audr. Buechner & Orth, 500 Shebert Bldg., St. Paul, Arch. Noted Sept. 14.

Mo., Boonville—Dormitory and Dining Hall—Kamper Military Academy making plans, 3-story, 130x130-ft. About $100,000. T. W. Best, Sedalia, Arch.

Mo., Independence—Gymnasium and Vocational Building—Jackson County making plans, 3-story, 75x150-ft. White & Dean, 311 Bellefontaine, Kansas City, Arch.

Mo., St. Louis—Clinic—City receives bids about Oct. 12 for 4-story, 54x112-ft., about $125,000. P. J. Markman, City Arch. E. R. Kinsey, Pres. Bd. Pub. Ser.

Mo., St. Louis—School—Bd. Education made plans for Alexander Hamilton School. About $246,000.

Tex., Abilene—Hospital—R. S. Glenn, Campbell Bldg., making plans.

Tex., Brownwood—High School—City making plans.

Tex., Ft. Worth—Dormitory—Texas Women's College making plans.

Tex., Refugio—Courthouse—County Comrs. plan. About $75,000.

Tex., Waco—Central Texas Baptist Sanitarium plans building. About $100,000. J. F. Rowe, Secy.

Okla., Durant—Courthouse and Jail—Bryan County votes Nov. 7 on $100,000 bonds.

Okla., Tulsa—Office—Sinclair Oil and Gas Co. making plans, 8-story. C. H. Birdsall, 1002 Commerce Bldg., Kansas City, Mo., Arch. Noted June 29.

Okla., Woodward—City Hall—City defeated $50,000 bond issue, 2-story, 88x160-ft. H. H. Alexander, City Clk. Noted May 18.

Colo., Denver—Temple—Labor Temple Association plans. About $100,000.

Utah, Salt Lake City—School—R. C. Church,, care of Bishop Glass, making plans. About $100,000. J. F. Comes and J. E. Kauzor, Renshaw Bldg., Pittsburgh, Archs.

Ore., Astoria—High School—School Bd. soon lets contract, 2-story. About $80,000. Whitehouse & Fouilhoux, Wilcox Bldg., Portland, Arch. Noted Aug. 31.

Ore., Bend—Hotel—Phillip Brooks, Vancouver, B. C., and F. W. Sullivan, Bend, soon lets contract, 3-story Pilot Butte Hotel. About $80,000. Noted Sept. 21.

Calif., San Francisco—Chamber of Commerce plans 3-story building. About $150,000.

Bids In and Contracts Awarded

Mass., Milton—School—City let contract 3-story, to McCAHEY & O'CONNOR, 218 Main St., Cambridge. About $175,000. Noted Sept. 21.

Conn., New Haven—Little Sisters of Poor, 238 Winthrop Ave., let contract "Home for Aged" to D. G. CARMICHAEL, 902 Chapel St., about $100,000.

N. Y., Buffalo—Hospital—Buffalo General Hospital let contract to J. W. COWPER CO., Fidelity Bldg., about $150,000.

N. Y., Dunkirk—School—Bd. Education rejected bids received Sept. 15, 1-story, 200x250-ft. About $90,000. Noted Sept. 7.

N. Y., Ilion—Parish House and Church—St. Augustine's Episcopal Congregation let contract to E. BEDFORD, 48 John St., Ilion. About $60,000. Noted June 29.

N. Y., Lackawanna—School—Bd. Education let contract to NIEDERPREUM BUILDING CO., 1170 Jefferson St., Buffalo. About $180,000.

N. Y., New York — (Manhattan) — Loft — C. Meyer, 30 East 42d St., let contract, 12-story, to I. BOOK, 220 West 42d St. Noted Mar. 23.

N. J., Garfield—High School—Bd. Education let contract, 2-story, to P. F. CAVISTON, Carbondale, Penn. About $90,000. Noted Sept. 14.

N. J., Jersey City—Schools—City received lowest bid for high school and School No. 3 from A. Winternetz, 237 East 72nd St., New York, $273,000 and $77,000 respectively.

N. J., Newton—High School—City let contract to C. E. PRESTON, White Plains, N. Y., $50,459. Noted Sept. 7.

N. J., Plainfield—City Hall—City let contract to P. F. KENNY, 33 Old Broadway, New York, $107,999. Noted Sept. 21.

Penn., Pottstown—St. James Evangelical Lutherian Church let contract building at High and Price St. to W. H. WIAND, Pottstown. About $50,000.

D. C., Washington—Hotel and Office—Contract, 11-story, 35x180-ft. Hotel Arlington and office building to G. A. FULLER CO., Munsey Bldg. About $3,000,000.

Ky., Louisville—School—Baptist Women's Mission Union Training School let contract, 4-story, to SELDEN-BRECK CONSTRUCTION CO., 1108 Fullerton Bldg., St. Louis, Mo. About $150,000.

Ohio, Gallipolis—High School—Bd. Education let contract, 2-story, 66x130-ft., to CULLEN & VAUGHN, 8 East Broad St., Columbus, $80,000. Noted July 20.

Ohio, Lakewood — (Official) — Cleveland Telephone Co. let contract 3-story addition to building to W. B. McALLISTER. About $55,000. Noted Sept. 21.

Ohio, Wilberforce — Gymnasium — Wilberforce University let contract to CULLEN & BAUGHN CO., Hamilton. About $40,000. Noted Sept. 7.

Ind., Terre Haute—Church—Centenary Methodist Congregation let contract to AINSWORTH CONSTRUCTION CO., Terre Haute. About $80,000. Noted Aug. 10.

Mich., Royal Oak—Church—M. E. Church let contract, to E. M. CRAMER, Logansport, Ind. About $70,000. Noted July 6.

Mich., Wahjamega—Michigan Farm Colony for Epileptics let contract building to SPENCER BROS., Brewer Bldg., Saginaw. About $47,000.

Wis., Wauwatosa—Dining Hall—City let contract masonry to A. G. TADDEY, 744 46th St. About $50,000.

Iowa, Jesup—High and Grade School—Jesup Consolidated School Dist. let contract to LOGAN BROS., Clinton, $65,800. Noted Sept. 7.

Minn., Mound—High School—School Dist. No. 85 let contract, 3-story, 74x122-ft., to A. WURTZ, 3434 South 20th Ave., Minneapolis. About $60,000. Noted Aug. 24.

Mo., Springfield—Y. M. C. A. let contract 2-story, 50x150-ft. building to PAULY & IPSEN. About $50,000. Noted July 13.

Ark., Hot Springs—Hotel—Contract Como Hotel Annex, 5-story, rein.-con., let to J. D. JOHNSON, 420 Johnson St., Little Rock.

Ark., Little Rock—Music Studios—F. B. Hollenberg let contract to STEWART & McGHEE CONSTRUCTION CO. About $60,000.

Idaho, Osburn—Hospital—County let contract to A. J. TURNER, Wallace, $58,456.

Wash., Seattle—High School—School Bd. let contract West Seattle High School to JENKINS & JONES, Hinckley Bldg., $196,600.

Calif., Santa Barbara—Library—Contract 2-story, 130x160-ft. brick Carnegie Library let to KIER CONSTRUCTION CO., American National Bank Bldg., San Diego, $59,938. Noted Sept. 7.

REPAVING, NEWARK, N. J.

Bids received by city Sept. 7 for repaving Roseville Ave. from (A) J. S. Geiger Sons, Newark; (B) Glenfield Construction Co.; (C) Newark Paving Co.; O'Gara & Maguire, $48,781; R. Sangiovanni, $49,122. The item bids of the 3 lowest bidders were as follows:

	A	B	C
15,000 sq.yd. 4-in. wood block on old concrete	$2.34	$2.59	$2.66
400 cu.yd. on concrete	5.20	6.80	6.00
3,000 lin.ft. 16x5-in. curb, set in concrete	.78	.85	.87
3,000 lin.ft. old bluestone curb, reset in concrete	.35	.35	.35
500 lin.ft. old bluestone curb, reset at driveways	.35	.40	.35
290 lin.ft. 16x5-in. four cut corners, set in concrete 12 ft. radius	1.20	1.00	1.00
3,000 sq.ft. cement walk, 5 in. thick	.16	.20	.20
2 new basins with single inlet	100.00	110.00	110.00
4 new inlet basins	100.00	125.00	110.00
2 new basins using old granite heads retrimmed	100.00	90.00	90.00
2 new inlets to basins	25.00	40.00	25.00
1 old granite head reset	3.00	12.00	10.00
21 new iron manhole heads and covers as per plan	15.00	15.00	15.00
Extended totals	$42,643	$47,477	$48,450

TRADE PUBLICATIONS

Duntley Universal Electric Hammer Drill. Chicago Pneumatic Tool Co., Fisher Bldg., Chicago, Ill. Bulletin E-43. Pp. 4. 6x9 in. Illustrated.

Locomotives for Light Road Service. The Baldwin Locomotive Works, Philadelphia, Penn. Record No. 84. Pp. 32. 6x9 in. Illustrated.

Lubrication and Casings for Silent Chain Drives. Link-Belt Co., 39th St. and Stewart Ave., Chicago, Ill. Booklet No. 286. Pp. 8. 6x9 in. Illustrated.

Pumping Engines. Allis-Chalmers Manufacturing Co., Milwaukee, Wis. Bulletin No. 1637. Pp. 74. 8x10½ in. Illustrated.

Burd Piston Ring Directory.—Burd High Compression Ring Co., Rockford, Ill. 1916 Edition of Directory of Piston-Ring Sizes for Automobiles, Trucks, Tractors, Engines, etc. Pp. 180. 4½x6½ in.

Pelton-Doble Centrifugal Pumps. The Pelton Water Wheel Co., San Francisco, Calif. Bulletin No. 9. Pp. 8. 6x9 in. Illustrated.

Tractors—The Holt Mfg. Co., Peoria, Ill. Bulletin C-106. Pp. 24. 7x10 in. Describes The Caterpillar "Forty Five" type of tractor and its use in road work and hauling.

SEWER SYSTEM, CHICAGO, ILL.

Evanston Intercepting Sewer

Bids received by Sanitary District of Chicago for Evanston Intercepting Sewer, Contract No. 1 from (A) Nash-Dowdle Co., Chicago; (B) Byrne Bros. Dredging and Engineering Co., Chicago; (C) Nash Bros. Chicago. The item bids were as follows:

	A	B	C
5,106 lin.ft. concrete sewer, 10 ft., Lake St.	$35.00	$49.50	$35.25
5,106 lin.ft. brick and concrete sewer, 10 ft., Lake St.	39.00	60.00	39.75
1,895 lin.ft. concrete sewer, 10 ft. tunnel, Lake St.	61.00	72.00	62.00
1,895 lin.ft. brick and concrete sewer, 10 ft. tunnel, Lake St.	61.00	75.60	62.00
964 lin.ft. concrete sewer, 7½ ft., Sherman Ave.	24.75	34.50	25.00
964 lin.ft. brick sewer, 7½ ft., Sherman Ave.	26.00	39.50	26.00
1,990 lin.ft. concrete sewer, 7 ft. Orrington Ave.	21.50	33.50	21.00
1,990 lin.ft. brick sewer, 7 ft., Orrington Ave.	23.00	36.50	23.00
1,106 lin.ft. concrete sewer, 6 ft. tunnel, Lake St.	29.00	44.90	30.00
1,106 lin.ft. brick sewer, 6 ft. tunnel, Lake St.	29.00	52.00	36.00
1,300 lin.ft. concrete sewer, 6 ft. open cut, Lake St.	18.00	25.00	18.50
1,300 lin.ft. brick sewer, 6 ft. open cut, Lake St.	20.00	36.00	20.00
1,300 lin.ft. segmental block sewer, 6 ft., open cut, Lake St.	......	29.00	......
1,300 lin.ft. reinforced concrete pipe sewer, 6 ft. open cut, Lake St.	......	29.50	......
3,677 lin.ft. concrete sewer, 6 ft. Elmwood Ave.	17.00	26.00	17.50
3,677 lin.ft. brick sewer, 6 ft., Elmwood Ave.	19.00	29.50	19.25
3,677 lin.ft. segmental block sewer, 6 ft. Elmwood Ave.	......	30.00	......
3,677 lin.ft. reinforced concrete pipe sewer, 6 ft. Elmwood Ave.	......	31.00	......
3,758 lin.ft. concrete sewer, 5 ft., Lake Front	11.50	19.00	11.60
3,758 lin.ft. brick sewer, 5 ft., Lake Front	12.75	23.00	12.90
3,758 lin.ft. segmental block sewer, 5 ft., Lake Front	......	22.00	......
3,758 lin.ft. reinforced concrete pipe sewer, 5 ft., Lake Front	......	24.00	......
1,645 lin.ft. concrete sewer, 4½ ft., Lake Front	12.00	20.00	12.25
1,645 lin.ft. brick sewer, 4½ ft., Lake Front	13.50	23.00	13.75
1,645 lin.ft. segmental block sewer, 4½ ft. Lake Front	......	23.00	......
1,645 lin.ft. reinforced concrete pipe sewer, 4½ ft., Lake Front	......	24.00	......
2,385 lin.ft. concrete sewer, 4½ ft., Main St., Sherman Ave., Washington St. and Custer Ave.	12.00	21.00	12.00
2,385 lin.ft. brick sewer, 4½ ft., Main St., Sherman Ave., Washington St., and Custer Ave.	13.50	24.00	13.25
2,385 lin.ft. segmental block sewer, 4½ ft., Main St., Sherman Ave., Washington St. and Custer Ave.	......	25.00	......
2,385 lin.ft. reinforced concrete pipe sewer 4½ ft., Main St., Sherman Ave., Washington St. and Custer Ave.	......	25.00	......
3,989 lin.ft. concrete sewer, 4½ ft., Emerson St.	12.00	19.00	12.25
3,989 lin.ft. brick sewer, 4½ ft., Emerson St.	13.50	22.00	13.75
3,989 lin.ft. segmental block sewer, 4½ ft., Emerson St.	......	23.00	......
3,989 lin.ft. reinforced concrete pipe sewer, 4½ ft., Emerson St.	......	23.00	......
1,181 lin.ft. concrete sewer, 4 ft., Custer Ave.	9.00	17.00	9.10
1,181 lin.ft. brick sewer, 4 ft., Custer Ave.	10.50	19.00	10.75
1,181 lin.ft. segmental block sewer, 4 ft., Custer Ave.	......	20.00	......
1,181 lin.ft. reinforced concrete pipe, 4 ft. Custer Ave.	......	20.00	......
200 lin.ft. concrete sewer, 4 ft., Lake Front	10.00	17.00	10.25
200 lin.ft. brick sewer, 4 ft., Lake Front	11.50	19.00	11.90
200 lin.ft. segmental block sewer, 4 ft., Lake Front	......	20.00	......
200 lin.ft. reinforced concrete pipe sewer, 4 ft., Lake Front	......	20.00	......
1,304 lin.ft. concrete sewer, 3½ ft., Custer Ave.	8.25	13.00	8.50
1,304 lin.ft. brick sewer, 3½ ft., Custer Ave.	9.75	15.00	9.75
1,304 lin.ft. segmental block sewer, 3½ ft., Custer Ave.	......	16.00	......
1,304 lin.ft. reinforced concrete pipe sewer, 3½ ft. Custer Ave.	......	16.00	......
3,890 lin.ft. concrete sewer, 3½ ft., Lake Front	9.00	17.00	9.25
3,890 lin.ft. brick sewer, 3½ ft., Lake Front	10.25	20.00	10.50
3,890 lin.ft. segmental block sewer, 3½ ft., Lake Front	......	21.00	......
3,890 lin.ft. reinforced concrete pipe sewer, 3½ ft., Lake Front	......	21.00	......
1,302 lin.ft. concrete sewer, 3 ft., Custer Ave.	6.00	11.00	6.00
1,302 lin.ft. brick sewer, 3 ft., Custer Ave.	7.50	13.00	7.50
1,302 lin.ft. segmental block sewer, 3 ft., Custer Ave.	......	14.00	......
1,302 lin.ft. reinforced concrete pipe sewer, 3 ft., Custer Ave.	......	14.00	......
2,140 lin.ft. tile pipe sewer, 24 in., Lake Front	5.00	6.50	5.00
2,140 lin.ft. reinforced concrete pipe sewer, 24 in., Lake Front	......	8.00	......
294 lin.ft. double deck sewer, Lake St.	64.00	63.00	65.00
290 lin.ft. concrete sewer, 5x5.75 ft., Lake Front	15.00	22.00	15.25
290 lin.ft. brick sewer, 5x5.75 ft., Lake Front	17.00	25.00	17.25
750 lin.ft. concrete manholes, open cut	6.00	8.00	6.00
750 lin.ft. brick manholes, open cut	6.00	10.00	6.00
165 lin.ft. concrete manholes, tunnel	10.00	10.00	8.00
165 lin.ft. brick manholes, tunnel	10.00	12.00	8.00
Outfall at Lake St. (Lump sum)	6,500.00	6,000.00	6,700.00
Outfall at Emerson St. (Lump sum)	3,000.00	7,500.00	3,300.00
Controlling chamber on Lake Front (Lump sum)	700.00	1,500.00	700.00
Junction at Lake St. and Elmwood Ave. (Lump sum)	4,000.00	300.00	4,200.00
Connection at Lake St. and Sheridan Rd. (Lump sum)	250.00	300.00	250.00
Crossing under C. & N. W. Ry. and C. M. & St. P. Ry., Lake St. (Lump sum)	14,500.00	4,000.00	17,000.00
Crossing under C. & N.W. Ry., and C. M. & St. P. Ry., near Main St., in tunnel (Lump sum)	6,000.00	7,000.00	6,500.00
Crossing under C. & N. W. Ry., and C. M. & St. P. Ry., near Main St., compressed air work (Lump sum)	$6,000.00	$11,000.00	$9,000.00
Crossing under C. & N. W. Ry., Mayfair Division, Lake St. (Lump sum)	1,000.00	4,500.00	900.00
Crossing under C. & N. W. Ry., Mayfair Division, Emerson St. (Lump sum)	7,000.00	1,300.00	8,000.00
Crossing under Evanston Ry., Lake St. (Lump sum)	900.00	1,500.00	850.00
Crossing under Evanston Ry., Main St. (Lump sum)	200.00	1,500.00	250.00
Sewer crossing at Lake St. and Dodge Ave. (Lump sum)	500.00	350.00	600.00
Sewer crossing at Lake St. and Wesley Ave. (Lump sum)	250.00	350.00	300.00
Sewer crossing at Lake St. and Maple Ave. (Lump sum)	250.00	350.00	300.00
Sewer crossing at Lake St. and Elmwood Ave. (Lump sum)	300.00	300.00	300.00
700 cu.yd. excavation for special manholes	1.50	1.00	2.00
300 cu.yd. concrete masonry for special manhole	15.00	15.00	16.00
300 cu.yd. brick masonry for special manholes	15.00	18.00	16.00
60 cu.yd. rubble stone paving	4.60	3.00	4.25
100 lin.ft. laying 18-in. tile pipe	3.00	2.50	3.50
800 lin.ft. laying 12-in. tile pipe	1.50	2.20	1.60
7,000 lin.ft. laying 9-in. tile pipe	1.00	2.00	1.00
50 lin.ft. laying 6-in. tile pipe	1.00	1.50	1.00
275 lin.ft. laying 24-in. tile pipe	3.00	4.00	4.00
282 lin.ft. tile pipe sewer, 24 in., Davis St.	14.00	10.00	15.00
500 lin.ft. tile pipe sewer, 18 in., Davis St.	14.00	8.00	15.00
1,415 lin.ft. tile pipe sewer, 18 in., Chicago Ave. and Lake St.	3.00	2.50	4.00
410 lin.ft. tile pipe sewer, 15 in., Dempster St.	3.00	2.50	4.00
437 lin.ft. tile pipe sewer, 18 in., Cook St.	3.00	2.50	4.00
550 lin.ft. tile pipe sewer, 18 in., near Main St.	5.00	2.50	5.50
140 lin.ft. removal of water pipe, 12 in.	1.00	1.00	1.25
500 lin.ft. removal of water pipe, 10 in.	1.00	1.00	1.05
50 lin.ft. removal of water pipe, 6 in.	.80	1.00	1.00
850 lin.ft. removal of water pipe, 4 in.	.50	1.00	.80
180 lin.ft. laying water pipe, 12 in.	1.50	4.00	1.75
630 lin.ft. laying water pipe, 10 in.	1.50	4.00	1.75
50 lin.ft. laying water pipe, 6 in.	1.25	3.50	1.50
900 lin.ft. laying water pipe, 4 in.	.90	3.00	1.25
2 gate valves, 12 in.	40.00	60.00	39.00
2 gate valves, 10 in.	38.00	50.00	39.00
1 gate valve, 6 in.	20.00	20.00	22.00
2 gate valves, 4 in.	10.00	12.00	12.00
5 gate valve boxes	4.00	7.00	4.50
30 manholes on tile sewers	45.00	50.00	50.00
25 catch basins	50.00	60.00	50.00
50 lin.ft. tile pipe for future connections, 24 in.	2.00	2.50	2.00
50 lin.ft. tile pipe for future connections, 18 in.	1.00	2.00	1.50
100 lin.ft. tile pipe for future connections, 12 in.	1.00	1.50	1.00
50 lin.ft. tile pipe for future connections, 9 in.	.75	1.00	.65
500 house slants, 6 in.	.75	.90	.65
175 making water service connections	10.00	12.00	11.00
100 lin.ft. relaying water service pipes	1.25	1.50	1.40
300,000 lb. steel sheet piling	.05	.05	.06
50,000 lb. reinforcing steel	.05	.05	.06
5,000 lb. structural steel	.05	.07	.06
50,000 lb. cast iron	.05	.06	.06
1,000 lin.ft. additional piling furnished	.30	.30	.35
1,000 lin.ft. additional piling driven	.30	.30	.35
5 M ft. b.m. cribwork on piling	50.00	60.00	65.00
1 M ft. b.m. sheeting	20.00	20.00	20.00
1 M ft. b.m. plank foundation	25.00	25.00	25.00
5 cu.yd. additional excavation, earth, in open cut	.75	.75	.75
5 cu.yd. additional excavation, earth, in tunnel	3.00	3.00	3.00
5 cu.yd. additional excavation, rock	3.00	3.00	3.00
5 cu.yd. additional concrete, class A	8.00	8.00	8.00
5 cu.yd. additional concrete, class B, in open cut	7.50	7.50	7.50
5 cu.yd. additional concrete, class B, in tunnel	9.50	9.50	9.50
5 cu.yd. additional concrete, class C, in open cut	7.00	7.00	7.00
5 cu.yd. additional concrete, class C, in tunnel	9.00	9.00	9.00
5 cu.yd. additional brickwork, in open cut	9.00	9.00	9.00
5 cu.yd. additional brickwork, in tunnel	11.00	11.00	11.00
Extended totals concrete alternative	$841,630	$1,194,770	$868,517
Extended totals brick alternative	$904,347	$1,354,413	$932,445
Extended totals segmental block alternative	......	$1,365,444	......
Extended totals reinforced concrete alternative	......	$1,382,142	......

SEWER SYSTEM, CHICAGO, ILL.

Niles Center Sewer Outlet

Bids received by Sanitary District of Chicago Sept. 14 for constructing Niles Center Sewer Outlet from (A) T. P. Garland, Chicago; (B) Marquette Construction Co., Chicago; (C) W. F. Cummings, Chicago; U. S. Dredge and Dock Co., Chicago, $36,649; J. V. McGovern, Chicago, $37,163; J. Healey, Chicago, $36,923; H. J. McNichols Co., Chicago, $45,293. The item bids were as follows:

	A	B	C
10,000 lin.ft. 20-in. sewer	$2.05	$2.75	$2.65
30 manholes	60.00	50.00	100.00
Sewer outfall (lump sum)	200.00	300.00	1,220.00
Connection to Niles Center sewer (lump sum)	1,128.00	1,200.00	1,815.00
8,000 lb. reinforcing steel	.07	.06	.07
5 M ft. b.m. sheeting	20.00	20.00	20.00
5 M ft. b.m. plank for foundations	25.00	25.00	25.00
5 cu.yd. additional excavation, earth	.75	.75	.75
5 cu.yd. additional excavation, rock	3.00	3.00	3.00
5 cu.yd. additional concrete, Class A	8.00	8.00	8.00
5 cu.yd. additional concrete, Class B	7.00	7.00	7.00
5 cu.yd. additional brickwork	9.00	9.00	9.00
Extended totals	$24,551	$31,343	$33,458

Robert C. Clifford, who for the past 4 years has been District Sales Manager of the United States Cast Iron Pipe and Foundry Co., is now associated with the Walter A. Zelnicker Supply Co., St. Louis, Mo., in charge of the Rail Department.

PAVING, NEW YORK, N. Y.

(Borough of Manhattan)

Bids received by Borough President Sept. 12 for paving portion of 125th St. from (A) Asphalt Construction Co.; (B) Uvalde Asphalt Paving Co.; (C) Barber Asphalt Paving Co.; Sicilian Asphalt Paving Co., $52,894; Cleveland Trinidad Paving Co., $58,619; Aztec Asphalt Co., $59,388. The item bids of the 3 lowest bidders were as follows:

	A	B	C
31 sewer manhole heads and covers	$15.00	$15.00	$18.00
10 sewer manhole covers	4.00	3.50	5.00
10 sewer manhole rings	3.00	2.50	5.00
11 water manhole heads and covers	16.00	15.00	15.00
4,880 lin.ft. new curb	1.40	1.40	1.40
100 lin.ft. new granite corner curb	2.25	1.90	2.00
50 lin.ft. old curb	.35	.35	.60
50 sq.ft. concrete sidewalk, Class A	.25	.50	.50
30 lin.ft. platform flag cut to line	.70	.50	.50
10 lin.ft. new granite header	.90	1.10	1.00
10 lin.ft. temporary header	.65	.60	1.00
3 cu.yd. brick masonry	12.00	15.00	15.00
2,870 cu.yd. concrete	5.00	5.00	5.70
15,750 sq.yd. sheet asphalt	1.28	1.485	1.20
100 sq.yd. sheet asphalt No. 2	2.00	1.50	1.20
1,450 sq.yd. sheet asphalt in R.R. area	1.25	1.485	1.20
240 concrete yard in R.R. area	5.00	5.00	5.70
Extended totals	$45,566	$48,849	$46,402

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.

Track Installation

Bids received by Public Service Commission, 120 Broadway, for installing tracks on Seventh Avenue Branch from (A) ENGEL & HEVENOR, 220 Broadway (awarded contract); (B) T. H. Reynolds Contracting Co., Inc., (C) Thomas Crimmins Contracting Co. The item bids were as follows:

	A	B	C
25 cu.yd. concrete masonry in place	$10.00	$13.00	$8.00
20 cu.yd. concrete masonry removal	25.00	28.00	30.00
50 tons c.-i. pipe, tees and elbows furnished and delivered	60.00	90.00	60.00
10 tons c.-i. hand hole frames and covers furnished and delivered	80.00	90.00	95.00
21,000 anticreepers installed	.10	.10	.10
59,000 lin.ft. Type I Track, tang. and curves over 2,000 ft. radius	.89	.95	1.10
10,700 lin.ft. Type I Track, curves of 2,000 to 701 ft. radius	1.44	1.20	1.64
8,000 lin.ft. Type I Track, curves under 701 ft. radius	1.66	1.40	1.66
23,500 lin.ft. Type II Track, tang. and curves over 2,000 ft. radius	4.02	4.80	4.05
850 lin.ft. Type II Track, curves of 2,000 to 701 ft. radius	5.01	5.00	4.59
100 lin.ft. Type II Track, curves under 701 ft. radius	5.17	5.20	4.61
12,000 lin.ft. Type IV Track, tang. and curves over 2,000 ft. radius	2.02	2.80	2.42
265 lin.ft. Type IV Track, curves of 2,000 to 701 ft. radius	2.60	3.00	3.00
1,600 lin.ft. Type IV Track, curves under 701 ft. radius	2.80	3.20	3.02
Installing special portion 140 complete	7.56	8.30	7.90
Installing special portion 141 complete	5.12	7.50	5.20
Installing special portion 142 complete	18.00	14.30	13.08
Installing special portion 143 complete	5.42	7.50	5.60
Installing special portion 144 complete	16.20	14.30	11.40
Installing special portion 145 complete	10.12	12.30	10.20
Installing special portion 147 complete	6.01	7.50	6.20
Installing special portion 148 complete	5.89	7.50	6.10
Installing special portion 149 complete	5.69	7.50	6.00
Installing special portion 153 complete	5.96	7.50	4.50
Installing special portion 154 complete	13.14	13.20	11.55
Installing special portion 155 complete	13.18	13.20	11.60
Installing special portion 156 complete	5.96	7.40	6.20
Installing special portion 157 complete	5.12	7.40	5.30
Installing special portion 161 complete	6.01	9.10	6.10
Extended totals	$229,440	$260,010	$248,475

BARGE CANAL, ALBANY, N. Y.

Contract No. 31

Bids received by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal work, Contract No. 31, constructing a dock wall and an approach at Lyons from (A) LUPFER & REMICK, Buffalo (awarded contract); (B) Chesley, Earl & Heimbach, Inc., Buffalo; (C) J. A La Porte, Mechanicsville; State Highway Construction Co., Beacon, $55,495; E. Brown Baker, Herkimer, $57,833; Walsh Construction Co., Davenport, Iowa, $61,874. The item bids were as follows:

	A	B	C
Clearing (lump sum)	$25.00	$1.00	$25.00
Cofferdams, pumping, bailing and draining (lump sum)	27,000.00	15,500.00	24,000.00
15,400 cu.yd. excavation	.10	.60	.45
10,400 cu.yd. forming embankment	.05	.05	.05
6.2 M ft. b.m. sawed lumber	70.00	80.00	50.00
500 lin.ft. wooden fence	.30	.30	.30
2,800 cu.yd. second-class concrete	7.00	8.40	6.90
1,620 lb. c.i. pipe	.04	.035	.035
1,220 lin.ft. 4-in. drain tile	.12	.12	.12
220 lb. structural steel	.08	.07	.07
4,100 lb. iron castings, plain	.06	.05	.05
500 lin.ft. malleable c.i. nosing	1.30	1.30	1.30
82 fender fastenings	1.50	1.50	1.50
70 lin.ft. metal curb protection	.35	.35	.35
650 cu.yd. gravel surfacing	1.25	1.50	1.00
500 lin.ft. w.i. pipe railing	.60	.60	.60
Extended totals	$51,653	$51,923	$53,426

Loan for Extension of Colombian Railway—Washington, D. C., Aug. 26.—The Colombian Congress has authorized the Government to contract one or more loans for a total sum not to exceed $400,000, to be used in the extension of the Tolima Ry. to Ibague. The authorization as published in the "Diario Oficial" specifies that the loan will be guaranteed by a mortgage on the railway, including the part already constructed. The usual interest rates and the amortization will be covered by the proceeds of the railway, secured by 2% of the proceeds of the Atlantic customhouses.

SEWERS AND SEWAGE-DISPOSAL WORKS, RIDGEFIELD PARK, N. J.

Bids were received Aug. 1 by the Board of Commissioners for the construction of sewers and sewage-disposal works from (A) CARRINGTON CONSTRUCTION CO., Passaic (awarded contract); (B) C. S. Edwards, Jersey City; (C) J. F. Shanley Co., Newark; J. E. Bunting Co., $106,951; Day & Zimmerman, $116,829; Heyman & Goodman, $121,114. The item bids of the 3 lowest bidders were as follows:

	A	B	C
1,300 cu.yd. earth excavation, Class A	$1.45	$2.25	$2.25
2,100 cu.yd. earth excavation, Class B	1.45	1.30	1.00
100 cu.yd. rock excavation	4.00	7.00	3.50
11,600 cu.yd. embankment	1.25	1.26	1.25
860 cu.yd. concrete, Class A	11.50	12.75	12.50
60 cu.yd. concrete, Class B	9.00	9.00	11.20
62,000 lb. steel reinforcement	.042	.07	.06
10 M ft. b.m. lumber, in place	70.00	50.00	60.00
10 M ft. b.m. sheeting left in place	40.00	50.00	50.00
3,150 lin.ft. piles, exclusive of railroad crossing	.42	.48	.45
3,510 lin.ft. piles, at railroad crossing	.55	.65	.50
60 cu.yd. ballast	2.60	3.00	2.20
65 sq.yd. stone protection	2.50	2.00	1.60
2 anchor piers	75.00	170.00	170.00
46 concrete posts with platforms	25.00	25.00	30.00
66 concrete posts without platforms	20.00	20.00	21.00
2 sludge pump houses	950.00	900.00	935.00
2 sludge pumps with engines and appurtenances	1,300.00	1,600.00	1,400.00
1,760 lin.ft. 3-in. c.i. pipe, hub and spigot, Class C	.90	1.00	1.00
2,040 lin.ft. 6-in. c.i. pipe, flanged, Class B	1.25	1.23	1.30
342 lin.ft. 6-in. c.i. pipe, flanged, Class C	3.35	1.35	1.50
60 lin.ft. 8-in. c.i. pipe, flanged, Class A	2.00	1.80	1.50
395 lin.ft. 8-in c.i. pipe, flanged, Class C	3.50	2.00	1.75
50 lin.ft. 12-in. c.i. pipe, flanged, Class A	4.00	2.50	2.70
36 lin.ft. 12-in. c.i. pipe, hub and spigot, Class A	3.00	3.00	2.80
168 lin.ft. 24-in. c.i. pipe, hub and spigot, Class B	6.00	8.00	8.00
96 lin.ft. 24-in. c.i. pipe, flexible jointed, Class B	12.00	9.00	12.00
6 1-in. brass compression bibbs	3.00	3.00	3.00
2 1½-in. brass stop cocks	5.00	5.00	4.50
4 3-in. gate valves with valve box	8.50	20.00	18.50
18 6-in. gate valves with attached operating keys	20.00	22.00	27.00
2 8-in. gate valves with valve boxes	35.00	30.00	37.00
6 8-in. gate valves with special steme and operating stands	42.50	62.00	45.00
2 hydrants with frost cases and connections	35.00	45.00	35.00
3 6-in. expansion joints	35.00	55.00	37.00
13 6-in. circular sluice gates	20.00	20.00	18.50
5 8-in. automatic flow regulators	75.00	65.00	75.00
4 12-in. outomatic flow regulators	100.00	90.00	100.00
12 stop planks	7.00	4.00	3.50
23 weirs	18.00	8.00	9.00
Structural steel, exclusive of railroad crossing (lump sum)	285.00	450.00	500.00
750 lin.ft. 8-in. vitrified pipe sewers, complate, no cut	.50	.45	.66
2,018 lin.ft. 8-in. vitrified pipe sewers, complete, 0 to 6 ft. deep	.75	.70	.80
4,212 lin.ft. 8-in. vitrified pipe sewers, complete, 6 to 10 ft. deep	1.45	1.30	1.10
885 lin.ft. 8-in. vitrified pipe sewers, complete, 10 to 14 ft. deep	1.90	2.15	2.25
10 lin.ft. 8-in. vitrified pipe sewers, complete, 14 to 18 ft. deep	2.70	3.25	3.50
10 lin.ft. 8-in. vitrified pipe sewers, complete, 18 to 22 ft. deep	3.50	3.50	3.75
40 lin.ft. 10-in. vitrified pipe sewers, complete, 6 to 10 ft. deep	1.60	1.25	1.20
10 lin.ft. 10-in. vitrified pipe sewers, complete, 10 to 14 ft. deep	2.05	2.25	2.30
10 lin.ft. 10-in. vitrified pipe sewers, complete, 14 to 18 ft. deep	2.60	2.40	2.40
10 lin.ft. 10-in. vitrified pipe sewers, complete, 18 to 22 ft. deep	4.00	3.60	3.80
265 lin.ft. 12-in. vitrified pipe sewers, complete, 0 to 6 ft. deep	1.00	1.00	1.00
425 lin.ft. 12-in. vitrified pipe sewers, complete, 6 to 10 ft. deep	1.70	1.25	1.25
1,200 lin.ft. 12-in. vitrified pipe sewers, complete, 10 to 14 ft. deep	2.17	2.35	2.25
600 lin.ft. 12-in. vitrified pipe sewers, complete, 14 to 18 ft. deep	2.70	3.50	3.70
195 lin.ft. 15-in. vitrified pipe sewers, complete, 0 to 6 ft. deep	1.25	1.00	1.40
715 lin.ft. 15-in. vitrified pipe sewers, complete, 6 to 10 ft. deep	2.00	1.75	1.80
670 lin.ft. 15-in. vitrified pipe sewers, complete, 10 to 14 ft. deep	2.65	2.50	2.60
205 lin.ft. 15-in. vitrified pipe sewers, complete, 14 to 18 ft. deep	3.30	3.25	3.20
255 lin.ft. 15-in. vitrified pipe sewers, complete, 18 to 22 ft. deep	4.15	4.00	4.20
210 lin.ft. 15-in. vitrified pipe sewers, complete, 22 to 24 ft. deep	4.75	4.75	5.00
1,130 lin.ft. 18-in. vitrified pipe sewers, complete, 0 to 6 ft. deep	1.52	1.25	1.35
334 lin.ft. 18-in. vitrified pipe sewers, complete, 6 to 10 ft. deep	2.38	2.30	2.20
84 lin.ft. 18-in. vitrified pepe sewers, complete, 10 to 14 ft. deep	2.85	3.50	3.15
1,000 lin.ft. 24-in. vitrified pipe sewers, complete, no cut	1.90	1.75	2.20
2,050 lin.ft. 24-in. vitrified pipe sewers, complete, 0 to 6 ft. deep	2.65	2.50	2.50
Concrete sewer and appurtenances at railroad crossing, complete, except pile foundation (lump sum)	3,800.00	3,500.00	3,750.00
1,600 lin.ft. vitrified pipe risers	.75	.90	.50
500 lb. bituminous joint compound in place	.05	.10	.10
68 manholes	70.00	75.00	85.00
7 storm water by-passes	275.00	225.00	300.00
77 connections altered, house drain	15.00	5.00	5.00
Altering existing sewers (lump sum)	400.00	600.00	300.00
Extended totals	$101,278	$102,005	$102,365

Henrici, Kent & Lowry, Consult. Engr., announces the removal of its offices to 222 Commerce Bldg., Kansas City, Mo.

J. E. A. Retzlaff, 45 Broadway, New York, N. Y., importing and exporting firm, announces that it would be pleased to receive catalogs from all manufacturers who are prepared to fill orders for tropical export.

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.

Station Finish

Bids received by Public Service Commission, 120 Broadway, Sept. 13, for station finish on 3 stations of Broadway-Fourth Avenue Rapid Transit R.R. from (A) SERBER-STANDER CO., 118 East 28th St. (awarded contract); (B) Louis Wechsler; (C) J. B. Roberts & Co.; Thomas Dwyer, $154,849; Charles Meads & Co., $169,517; T. J. Waters Co., $173,991. The item bids of the 3 lowest bidders were as follows:

	A	B	C
656 sq.ft. tile w.g., 3x6 in., straight	$0.66	$0.62	$0.65
60 sq.ft. tile w.g., 3x6 in., 1-in. radius comb	1.38	1.50	1.38
390 sq.ft. tile w.g., 3x6 in., 2½-in. radius comb.	1.55	1.60	1.56
10 sq.ft. tile w.g., 3x6 in., 20-in. radius comb	1.30	1.50	1.20
50,100 sq.ft. tile w.g., 4¼x4¼ in., straight	.66	.64	.65
120 sq.ft. tile w.g., 4¼x4¼, 1-in. radius comb	1.38	1.50	1.38
1,900 sq.ft. tile w.g., 4¼x4¼ in., 2½-in. radius comb	1.54	1.60	1.54
135 sq.ft. tile w.g., 4¼x4¼ in., 20-in. radius comb	1.21	1.25	1.20
10 lin.ft. tile bead, w.g., 1-in. radius	.50	.60	.50
2,410 sq.ft. tile w.p. vit. col., straight	1.15	1.20	1.15
35 sq.ft. tile w.p. vit. col., 1-in. radius comb	1.95	2.00	2.00
45 sq.ft. tile w.p. vit. col., 2½-in. radius comb	2.20	2.40	2.20
10 sq.ft. tile w.p. vit. col., 20-in. radius comb.	1.70	1.88	1.65
4,900 sq.ft. Mosaic band, tile, col	1.50	1.52	1.48
875 sq.ft. Mosaic and tile tablets	1.76	1.80	1.76
210 initial letter plaques, station walls	1.93	2.00	2.00
175 sq.ft. Mosaic and tile dest. tablets, col	1.93	2.00	1.93
14,540 sq.yd. plastering arches, (b) concrete	.46	.79	.73
1,780 sq.yd. plastering flats, brick or hollow tile	.46	.56	.60
5,180 sq.yd. plastering flats, concrete	.46	.56	.60
35 sq.yd. plastering flats, metal lath	.84	1.00	1.00
5,600 sq.ft. cement work, wainscots or bases	.24	.12	.135
57,150 sq.ft. cement work, 3-in. floor finish	.12	.12	.125
50 sq.ft. cement work, finish on concrete brick or hollow tile	.09	.28	.15
15 sq.ft. cement work, panels for signs	.12	.30	.30
315 cu.ft. concrete work, copings	1.20	1.15	1.10
10 cu.yd. concrete work, foundations	9.20	7.00	8.25
65 cu.ft. concrete work, reinforced	.85	1.25	.60
120 cu.ft. concrete work, protective	1.00	1.25	.50
340 cu.ft. concrete work, street landings	.40	.35	.30
2,300 sq.ft. concrete work, tooling and rubbing	.30	.13	.15
600 lin.ft. concrete stairs, etc., self-supporting stairs	1.15	1.25	1.37
7,000 lin.ft. concrete stairs, etc., supported stairs	.85	.90	.825
2,270 sq.ft. concrete stairs, etc., supported landings	.46	.51	.275
20 cu.ft. concrete stairs, etc., supporting columns	1.50	.75	.60
4,620 sq.ft. concrete stairs, etc., non-slip treads	1.00	.75	.96
2,080 lin.ft. concrete stairs, etc., cement bases	.25	.14	.22
40 lin.ft. concrete stairs, etc., cement finish—exposed sides	.14	.18	.15
480 sq.ft. concrete stairs, etc., cement finish, street landings	.17	.14	.11
4,115 cu.ft. brick masonry, common	.52	.54	.50
5 cu.ft. hollow tile, 2 in	.88	1.00	.90
9,440 cu.ft. hollow tile, 3 in	.55	.60	.61
1,620 cu.ft. hollow tile, 4 in	.44	.50	.50
25 lin.ft. hollow tile, 4¼x13-in. flue	.50	.40	.50
920 weep holes	.13	.32	.18
120 anchor straps	.23	.30	.20
20 sq.yd. metal lath, without furring	.75	.75	.80
15 sq.yd. metal lath, with furring	2.00	1.25	1.75
10 ticket booths, type "E"	1,150.00	940.00	880.00
4 doors, type "A"	100.00	80.00	83.00
31 doors, type "D"	80.00	84.00	85.00
30 pair doors, type "G"	50.00	80.00	80.00
3 doors, type "J"	87.00	85.00	93.50
144 sq.ft. doors, type "K"	5.00	6.00	7.00
1 each doors, type "Q"	28.00	35.00	33.00
20 sq.ft. doors, type "L"	5.50	6.00	7.00
4 doors, type "P"	33.00	40.00	45.00
10 additional hardware, doorchecks	5.00	4.00	5.35
20 additional hardware, door stops	3.00	3.00	4.15
5 additional hardware, rubber covered chains	2.00	2.00	2.00
10 additional hardware, push plates	3.50	3.00	3.75
10 additional hardware, door pulls	4.50	4.00	4.25
10 pair kick plates	12.00	10.00	10.80
350 lin.ft. railings, type "FS"	3.70	4.05	3.58
50 lin.ft. railings, type "RS"	4.25	5.65	4.12
250 sq.ft. railings, type "GS"	.57	.60	.585
15 lin.ft. railings, type "LS"	3.80	4.25	3.69
115 sq.ft. railings, type "BS"	.78	.80	.66
130 lin.ft. railings, pipe	1.77	2.00	1.93
60 lin.ft. oak seats	6.50	4.00	2.00
100 lin.ft. gates, etc., low sliding	9.45	9.25	9.35
2 gates, etc., exit turnstiles	203.00	200.00	247.50
13 gates, etc., single gate controls	19.55	26.00	22.00
5 gates, etc., c.-i. floor boxes	7.15	8.50	8.80
10 lin.ft. gates, etc., 1¼-in. galv. w.-i. pipe	.35	.40	.39
250 lin.ft. gates, etc., 1-in. square steel tubing	.57	.62	.66
15 gate openings, c.-i. gate-posts, etc	58.65	54.00	82.50
55 sq.ft. frames, enameled sign on low railing	2.35	2.15	2.48
5 sq.ft. frames, enameled sign in high-low grille	2.35	2.25	2.75
115 lin.ft. frames, enameled reflectors, str. approach	2.13	2.25	2.20
520 sq.ft. frames, enameld sign plates	.40	.60	.42
95 sq.ft. frames, enameled direction sign frames	1.70	1.70	1.65
170 lin.ft. street railings, type "K"	8.00	7.25	8.00
275 lin.ft. street railings, type "K"	8.00	7.75	8.00
1,290 sq.ft. sheet metal work, metal ceilings	.44	.30	.44
1,770 lb. steel ladders, etc., steel shapes, lintels	.055	.07	.055
400 lb. steel ladders, etc., miscell. steel shapes	.065	.08	.0675
12 steel ladders, etc., ladders, track-floor to platform	11.50	11.00	13.20
1,000 lb. miscellaneous iron castings	.08	.08	.11
2,300 lin.ft. oak hand rails	.63	.60	.60
3,520 lin.ft. platform edge const., wooden facia	.22	.25	.16
4,300 platform edge const., drilling holes in angle	.25	.33	.25
Rough plumbing, 3 stations (lump sum)	4,600.00	4,266.80	5,750.00
25 plumbing fixtures, water-closet bowls	57.50	45.00	53.00
15 plumbing fixtures, lavatories—stations	40.00	27.00	37.50
11 plumbing fixtures, urinals	92.00	80.00	84.00
5 plumbing fixtures, slop sinks—closets	80.00	65.00	73.00
32 plumbing fixtures, floor drains	$23.00	$14.00	$12.00
560 sq.ft. structural glass, ¾-in. wainscoting	1.70	1.65	1.59
765 sq.ft. structural glass, ¾-in. pipe chamber partition	1.90	1.85	1.82
280 sq.ft. structural glss, ¾-in. shelves	1.75	1.70	1.65
610 sq.ft. structural glass, ¾-in. stall partitions	2.00	2.00	1.93
55 sq.ft. structural glass, 1-in. floor slab	3.50	3.40	3.30
160 lin.ft. structural glass, curved, corners and angles	1.70	1.65	1.59
60 c.-i. work in toilet, posts	12.35	9.60	13.20
165 lin.ft. c.-i. work in toilet, top rails	1.26	1.15	1.65
18 c.-i. work in toilet, register faces and frames, pipe chamber partitions	12.35	10.25	12.10
5 c.-i. work in toilet, c.-i. vent louvres	15.20	13.50	16.50
3,960 lb. steel supporting sections	.10	.09	.0775
1,600 lin.ft. conduits, ¾-in	.18	.16	.165
4,065 lin.ft. conduits, 1-in	.20	.21	.1875
1,000 lin.ft. conduits, 1¼-in	.30	.27	.35
240 lin.ft. conduits, 2-in	.53	.37	.42
150 lin.ft. conduits, 2½-in	.63	.48	.54
100 lin.ft. conduits, 3-in	.84	.60	.64
375 lin.ft. conduits, ¾-in. flexible	.18	.18	.165
30 special conduit fittings—removable cover	1.00	1.00	2.20
30 c.-i. outlet boxes	.50	.50	.45
1 c.-i. pull boxes, 12x12x6-in	4.60	5.00	3.08
5 c.-i. pull boxes, 12x6x4-in	8.50	8.50	2.31
42 c.-i. pull boxes, 6x6x4-in	1.55	1.50	1.98
10 c.-i. pull boxes, 4x4x4-in	.92	1.00	.88
4 c.-i. pull boxes, 8x8x4-in	1.84	2.50	2.20
16 c.-i. heater boxes	12.00	11.00	11.80
4 steel panel—board boxes, 32x5$\frac{11}{16}$x49 to 60-in.	26.50	20.00	15.40
3 steel panel, board boxes, 32x5$\frac{11}{16}$x37 to 48 in	23.00	15.50	13.20
1 steel panel, board boxes, 32x5$\frac{11}{16}$x25 to 36 in	21.20	12.50	12.10
3 steel switchboard boxes	34.50	36.00	23.10
25,400 sq.ft. paining, 2 coats, iron and steel	.025	.02	.0275
47,900 sq.ft. painting, 3 coats, iron and steel	.03	.0275	.03
198,700 sq.ft. painting, 2 coats plaster, concrete and cement panels	.02	.0175	.0175
287 painting, letters and numerals	.12	.10	.11
Extended totals	$149,324	$149,500	$151,027

HIGHWAY, LAWRENCEBURG, TENN.

Bids were received by Lawrence County Highway Comn., Sept. 20, for constructing the Jackson Military Rd. from (A) BOYD WILLIAMS, McMinnville (awarded contract); (B) Montgomery Perkins Co., San Antonio, Tex.; (C) Healy Construction Co., Meridian, Miss.; A. A. Smith, Mt. Pleasant, $148,157; R. C. Searcy, Columbus, Miss., $148,820; Perry, Brown & Rawlinson, Montgomery, Ala., $156,155; Thomas Worthington, Birmingham, Ala., $156,233; Hicks & Miller, Pontotoc, Miss., $156,985; R. L. Peters, Knoxville, $161,056. The item bids of the 3 lowest bidders were as follows:

	A	B	C
16 acres clearing and grubbing	$60.00	$70.00	$60.00
139,820 cu.yd. earth excavation	.22	.21	.21
11,900 cu.yd. loose rock excavation	.36	.38	.35
780 cu.yd. solid rock excavation	.70	.80	.75
124 lin.ft. 12-in. vitrified pipe	.38	.55	.50
168 lin.ft. 15-in. vitrified pipe	.55	.75	.60
170 lin.ft. 18-in. vitrified pipe	.75	1.07	.80
64 lin.ft. 24-in. vitrified pipe	1.45	1.75	1.30
1,072 lin.ft. 12-in. c.m. pipe	.71	.75	.76
1,238 lin.ft. 15-in. c.m. pipe	.88	.90	.90
502 lin.ft. 18-in. c.m. pipe	1.02	1.15	1.10
224 lin.ft. 24-in. c.m. pipe	1.57	1.74	1.60
164 lin.ft. 30-in. c.m. pipe	1.95	2.05	1.90
100 lin.ft. side drains	.18	.30	.30
320.8 cu.yd. class "A" concrete	9.00	10.50	11.00
715 cu.yd. class "B" concrete	8.25	9.25	10.00
Cu.yd. class "C" concrete	.....	8.50	.....
11.18 cu.yd. class hand rail concrete	13.00	20.00	20.00
29,082 lb. reinforcing steel	.05½	.05¼	.04¾
2,500 lin.ft. guard railing	.09	.16	.20
200 cu.yd. stripping chert pits	.25	.18	.40
65,700 cu.yd. chert in place complete	1.28	1.31	1.40
20 days foreman force account	3.50	3.50	5.00
50 days teams force account	4.50	4.50	4.50
600 days labor force account	1.65	1.75	1.75
Extended totals	$136,076	$139,021	$144,781

CATSKILL AQUEDUCT, NEW YORK, N. Y.

Contract 178

Bids received by Board of Water Supply Sept. 12 for Contract 178, grouting a portion of Eastview Tunnel of the Catskill Aqueduct from (A) WILLIAM HEYMAN, 15 Exchange Pl., Jersey City (awarded contract); (B) A. L. Guidone & Son, Inc., 52 Vanderbilt Ave.; (C) Lupfer & Remick, Buffalo. The item bids were as follows:

	A	B	C
10 cu.yd. excavating concrete masonry	$20.00	$100.00	$20.00
6,400 bbl. Portland cement	2.60	2.15	3.00
10 cu.yd. concrete masonry	20.00	55.00	30.00
800 lin.ft. drilling holes in rock or masonry	.80	1.95	5.00
700 lin.ft. steel pipe for grouting, etc	.70	.75	.60
250 connections for grouting	3.00	1.00	1.00
2,000 cu.yd. mixing and placing grout	6.30	15.00	10.00
1,100 tons sand for grout	5.00	3.00	3.00
Cleaning up (lump sum)	1,300	4,500	12,000
Extended totals	$38,320	$55,445	$59,670

Railway Construction by Bolivian Government—The call of the Bolivian Government for bids on the construction of the Potosi-Sucre Ry. has been annulled by a decree of Aug. 1, 1916. No bids having been received, according to the "West Coast Leader," the government has decided to proceed with the construction of the railway through the Public Works Department, using the final surveys made by W. L. Milner. It is stated that funds are available to begin the work of construction, and a loan may be negotiated later, with the constructed portions of the road as security. The Potosi-Sucre Ry. is an extension of the Rio Mulato branch of the Antofagasta & Bolivia Ry.

Asphalt Shingles for Panama—For the roofing of permanent dwelling houses and hospital buildings on the Isthmus, the Panama Canal authorities have placed orders with the Barber Asphalt Paving Co., Philadelphia, for nearly 3,000,000 slate-surfaced asphalt shingles. The factors which lead to this form of roofing are stated as follows: Asphalt shingles are as low in cost as, or lower than corrugated iron; they make a better-looking roof, do not increase the fire risk, save painting and resist the deteriorating effect of sea air.

SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until Oct. 10, 1916.

Bulkhead and Gates

Augusta, Ga., Sept. 25th, 1916.

Sealed proposals addressed to the City Council of Augusta, Georgia, will be received by the River and Canal Commission at Augusta, Ga., until four (4:00) o'clock P.M., Tuesday, October 10th, 1916, for furnishing all necessary outfit, material and labor and constructing complete reinforced-concrete bulkhead and steel gates for water control across Butler's Creek in Richmond County, Georgia, where the flood-protection levee crosses said creek. Foundation will be on piles. Height above foundation, 35 feet; clear span between wing walls, 65 feet; 6 gate openings 8 feet x 15 feet; length wing wall each end, 145 feet; approximate quantities of material—10,350 lineal feet foundation piles, 33,000 feet B.M. sheet-piling (6 inches x 12 inches), 6,000 cubic yards earth excavation, 1,980 cubic yards concrete, and 40 tons reinforcing steel.

Contract wil be let as a whole. Payment in cash on monthly estimates. With bid must be deposited certified check for $500 as a guarantee of good faith. Said deposit will be returned to bidder when contract is executed.

The successful bidder must give construction bond in the sum of $15,000.

The right is reserved to reject any and all bids.

Plans and specifications may be had by prospective bidders on application to the undersigned.

NISBET WINGFIELD,
Chief Engineer,
811 Ellis Street, Augusta, Ga.

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Bids received until Oct. 17, 1916.

Barge Canal Work

STATE OF NEW YORK
OFFICE OF SUPERINTENDENT OF PUBLIC WORKS

Alb[illegible] Sept. 18th, 1916.

Sealed propo[illegible] received by the undersigned [illegible] in the Capitol at Albany, N. Y., until twelve o'clock noon of Tuesday, October 17th, 1916, at which place and hour they will be publicly opened and read, for improving the New York State canals pursuant to the provisions of Chapter 147 of the Laws of 1903, and of the acts amendatory thereof and supplementary thereto, and Chapter 570 of the Laws of 1915, as follows:

1

CONTRACT NO. 19-A.

Erie Canal—Section 11.

For re-dredging Contract No. 19 and incidental work.

Sheets 1 to 13 inclusive.

2

CONTRACT NO. 139.

Oswego Canal—Section 1.

For excavating a channel in the Oswego River from the lower end of Lock No. 8 at Oswego to deep water.

Length 0.19 mile. Sheets 1 and 2.

3

CONTRACT NO. 140.

Champlin Canal—Section 1.

For placing bank protection along the west shore of the Hudson River about five miles north of Waterford, and incidental work.

Sheets 1 and 2.

And for the construction of Barge Canal terminals pursuant to the provisions of Chapter 746 of the Laws of 1911, and of the acts amendatory thereof, as follows:

4

TERMINAL CONTRACT NO. 19.

For dredging, for constructing a new bulkhead wall and a pier, and for repairing two existing piers and a bulkhead at Greenpoint, Brooklyn, N. Y.

Contract plans sheets 1-33.

5

TERMINAL CONTRACT NO. 26.

For constructing a pier and dredging a terminal basin in Lake Champlain at Rouses Point.

Contract plans sheets 1-4.

6

TERMINAL CONTRACT NO. 53.

To construct a dockwall along Dead Creek and around Ohio Basin, to dredge the basin and to construct a bascule bridge across Dead Creek at Ohio street, in the City of Buffalo.

Contract plans sheets 1-36.

Plans may be seen and detailed specifications, engineer's estimate of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y.; at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y.; at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., and at the canal office, Spaulding's Exchange, Buffalo, N. Y.

Copies of detailed plans of drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank (or trust company in the case of terminal contract) in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5 per cent.) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of each contract shall be in such sum as shall be fixed by the Superintendent of Public Works, which sum shall not be less than twenty per centum (20 per cent.) of the estimated cost of the work according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the State for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the State will be enhanced thereby.

W. W. WOTHERSPOON,
Superintendent of Public Works.

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Bids received until Oct. 10, 1916.

Notice to Road Contractors

Belvidere, N. J.

Sealed bids or proposals will be received by a Committee of the Board of Chosen Freeholders of Warren County, New Jersey, for the construction of 4.124 miles of bituminous macadam road, known as the Hope-Bridgeville Road, Section No. 1, at the Courthouse in Belvidere, N. J., on Tuesday, October 10, 1916, at 11:30 A.M.

Bids must be accompanied by cash or certified check in the amount of $1,000.00 made payable to H. O. Carhart, County Collector.

Plans and specifications are on file and blank proposals may be obtained at the Hotel at Hope, N. J., with the State Commissioner of Public Roads, Trenton, N. J., and at the office of F. W. Salmon, County Engineer, Netcong, N. J.

Samples of approved materials are on file with the State Road Department and with the County Engineer and will be shown and explained to prospective bidders on request.

Plans and specifications will be furnished by the County Engineer upon the payment of $10.00.

The right is reserved to reject any or all bids.

By order of the Board of Chosen Freeholders.

MORRIS L. FAUST,
Clerk.

Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Pennsylvania—J. I. Johnson, Johnstown, applied to Council, Portage, for franchise to construct electric railway from Portage to Martindale. Noted Sept. 28.

Pennsylvania—M. S. Hershey Chocolate Co., Hershey, made preliminary surveys for railway from Manheim to Hershey through Lebanon County, via Union Sq., Mastersonville, Mt. Gretna, Colebrook, Lawn and Bachmansville. Noted June 29.

Pennsylvania—Lehigh & New England R.R. plans to extend its line from Lansford to Pottsville. R. H. Wilbur, Philadelphia, Gen. Mgr.

Pennsylvania—Pittsburgh & Lake Erie R.R. plans line from point near Connellsville to Darnley, Penn., to West Virginia coal fields. J. A. Atwood, Pittsburgh, Ch. Engr.

Virginia—Norfolk & Western Ry., Roanoke, plans to spend about $3,000,000 for improvements. J. E. Crawford, Roanoke, Ch. Engr.

West Virginia—Pittsburgh, Cincinnati, Chicago & St. Louis Ry. (Pennsylvania Lines West of Pittsburgh, South West System), plans line from Chester, W. Va., to point below Beaver, Penn., about 12 mi. T. Rodd, Pittsburgh, Ch. Engr.

West Virginia—Virginia Railway Co., Norfolk, Va., plans 2 coal extensions into Raleigh County, one 7 mi. and one 9 mi. H. Fernstrom, Norfolk, Ch. Engr.

Georgia—Western & Atlantic R.R., Atlanta, receiving bids Dec. 5 for lease and also for extension of line from Atlanta to seawall, about 250 mi. C. M. Candler, Atlanta, Chn. Comn. Noted Aug. 31.

Louisiana—New Orleans, Texas & Mexico Railway Co. plans line from Erwinville to New Roads, about 4 mi. F. G. Jonah, St. Louis, Mo., Ch. Engr.

Kentucky—Chesapeake & Ohio Ry. does not plan line from Elizabethtown to Lexington, 98 mi., as stated in our issue of Sept. 7. F. I. Cabell, Richmond, Va., Ch. Engr.

Kentucky—(Official)—City of Henderson receiving bids Oct. 17 for franchise to construct railway on various streets. J. W. Johnson, Mayor. (See adv.)

Kentucky—Louisville & Nashville R.R. plans extension up Lotts Creek, near Hazzard, about 15 mi. W. H. Courtenay, Louisville, Ch. Engr.

Ohio—Cleveland, Alliance & Mahoning Valley R.R., Alliance, plans extension to Hudson. F. L. Mowry, Alliance, Gen. Mgr.

Ohio—Cleveland Railway Co., Cleveland, plans line on Lakeside Ave. from Ontario to East 9th St. G. L. Radcliffe, Cleveland, Gen. Mgr.

Illinois—Chicago & Illinois Midland Railway Co., Taylorville, soon receives bids for 3½ mi. single track on main line and 1 mi. side track. W. F. Mackey, Taylorville, Ch. Engr.

Montana—Northern Pacific Ry. made plans for line from Billings to Lake Basin, about 32 mi. W. L. Darling, St. Paul, Minn., Ch. Engr.

Missouri—Atchison, Topeka & Santa Fe Ry. plans to extend its line from Carrollton to St. Louis via Mexico and Keytesville, about 65 mi. C. F. W. Felt, Chicago, Ch. Engr. Noted Mar. 16.

Missouri—J. C. C. Waldeck Electric Ry. applied to Bd. Pub. Utilities, St. Louis, for permission for railway on Montrose Ave. from tracks of Missouri Ry. to plant of Independent Packing Co., Hickory St. and Ewing Ave.

Arkansas—Little Rock Lumber and Manufacturing Co., Little Rock, plans about 6 mi. railway in Ashley County. D. S. Watrous, Little Rock, Secy. and Mgr.

Texas—Surveys being made by Asherton & Gulf Ry. for line from Asherton to Eagle Pass, 52 mi. L. V. Richardson, Asherton, Gen. Mgr. Noted Dec. 9.

Texas—Atchison, Topeka & Santa Fe Ry. plans to extend its line from Ore City, Tex., to Oklahoma coal fields, Oklahoma, via Daingerfield and Mt. Pleasant to connection with Paris & Mt. Pleasant R.R. C. F. W. Felt, Chicago, Ill., Ch. Engr.

Texas—Paris Transit Co., Paris, increased capital stock from $60,000 to $80,000 and will improve and extend street railway system. W. G. Moore, Paris, Gen. Mgr.

Texas—St Louis-Southwestern R.R. plans line from Lufkin to Beaumont, about 100 mi. C. D. Purdon, St. Louis, Ch. Engr.

Oklahoma—Ardmore Railway Co. plans line from Ardmore to Fox oil fields. D. E. Booker, Ardmore, Recdr.

Nevada—Eureka-Nevada Ry. plans line from Gerlach to Surprise Valley, about 100 mi. C. B. Sexton, Palisade, Ch. Engr.

Arizona—Western Pine Lumber and Mill Co. lets contract about first of year for line from Holbrook to White Mountain Lumber Dist., 120 mi. F. H. Bowen, Red Key, Ind., Pres. Noted Sept. 28.

Oregon—Citizens of Prineville voted $100,000 bonds for railway from Prineville to main line of Oregon Trunk R.R., 18 mi. west. Noted Sept. 28.

California—(Press)—Los Verjels Land and Water Co., Marysville, plans electric railway from Bangor to connection with Northern Electric Ry. at Oroville.

California—Pacific Electric Ry. granted franchise by Council, Riverside, to relocate tracks to center line of 14th St. between Main St. and point east of Almond St. J. T. McMillan, Los Angeles, Gen. Mgr.

Alberta—City, Edmonton, plans to spend about $75,000 for extending street railways. C. E. Cox, City Clk.

Bids In and Contracts Awarded

Pennsylvania—Womelsdorf, Richland & Myerstown St. Railway Co. let contract line from Womelsdorf and Myerstown to Richland, 8 mi., to LEBANON VALLEY CONSTRUCTION CO. Noted Aug. 17.

Ohio—Cleveland, Southwestern & Columbus Electric Ry. let contract grading new branch line around Berea to L. F. GOTTE, Berea, about $40,000. Noted Aug. 17.

Ohio—Pennsylvania Lines West of Pittsburgh let contract grading roadbed for 2 additional tracks from main line between Leetonia and Sebring to F. R. JONES CONSTRUCTION CO., Chicago. About $800,000 or $1,000,000. Noted Apr. 6.

LIGHT, HEAT AND POWER

Proposed Work

Mass., Lunenburg—Town plans extension of electric-lighting system to Goodrichville, Mulpus and Flat Hill. A. A. Coop, Comr.

Conn., New Haven—Connecticut Co. granted permit, 2-story, 78x148-ft. power house on Grand Ave. About $250,000.

N. Y., Dannemora—(Official)—J. M. Carter, Supt. Prisons, Capitol, Albany, receiving bids Oct. 18 for engine and generator for Dannemora State Hospital. (See adv.)

N. Y., Eden—Niagara & Lake Erie Power Co., Fredonia, petitioned Pub. Ser. Comn. for permission to extend transmission line to Eden and install system.

N. Y., Middletown—Orange County Lighting Co. to install lighting system on North St. H. A. Cox, Middletown, Engr. Power Station.

N. Y., Port Henry—Port Henry Light, Heat and Power Co. has increased its capital stock and will make improvements to its system.

N. J., Belleville—Kent Motors Co. plans power plant in connection with manufacturing plant in Hillside Sect. Marvin & Davis, 303 5th Ave., New York, Arch.

N. J., Boonton—Boonton Electric Co. to issue $20,000 bonds for proposed extensions.

N. J., Newark—German Hospital plans power house on Bank St.

N. J., Newton—Town plans appropriation of $8,000 for installing electric-light system.

Penn., Erie—Erie Lighting Co. making plans for substation. Day & Zimmerman, Philadelpiha, Engr.

Fla., Vero—N. J. Norman, St. George, Ga., interested in installation of electric-light plant in Vero.

Ky., Lancaster—Bastin Bros. plan installation of power plant.

Ill., Germantown—City making plans for electric-light plant. V. J. Kluthe, 915 Olive St., St. Louis, Mo., Arch.

Ill., Rockford—D. H. Maury, Engr., Chicago, in report to Council, recommends installation of electric-light plant and system. About $425,000.

Wis., Clyman—Wisconsin Gas and Electric Co., Kenosha, plans extending transmission line to Clyman.

Minn., Gary—Village granted franchise to J. F. Heiberg, to install electric-lighting system.

Minn., Goodridge—Village plans to install electric-light system.

Minn., Granada—Council plans electric-light system.

Minn., Hoffman—City voted $10,000 bonds for municipal electric-lighting system and plant.

Minn., Lancaster—City plans electric-light system.

Minn., Mazeppa—City voted $8,000 bonds for electric-light and power plant.

Kan., Huron—Bonds sold for installation of electric-light system.

N. D., Medina—E. P. Olson interested in installation of electric-light plant.

Mont., Melstone—City Council soon receives bids for electric-light plant.

Tex., Atlanta—Atlanta Electric and Ice Co. to rebuild plant recently destroyed by fire. About $40,000.

Tex., Burnet—W. C. Galloway plans electric-light plant.

Arizona, Tucson—City to vote in December on $200,000 bonds for improving light and water systems.

Wash., South Cle Elum—Bonds for $5,000 voted for installation of electric-light system.

Que., Beauharnois—Howard Smith Paper Co. making plans for addition to power plant. R. S. Kelsch, Power Bldg., Montreal, Arch.

Bids In and Contracts Awarded

Mass., Haverhill—Haverhill Box and Board Co. let contract power house to B. H. HIBBARD CO.

Ill., Oregon—Northern Illinois Utilities Co. let contract concrete dam to W. J. McALPINE, Dixon. About $80,000.

Calif., Berkeley—University of California let contract power plant to C. C. MOORE & CO., San Francisco, $49,589.

BRIDGES

Proposed Work

Mass., Lawrence—(Official)—Lawrence Bridge Comn., office of J. J. Donovan, Rooms 507-508 Bay State Bldg., receiving bids Oct. 21 for waterproofing and protection of approximately 70,000 sq.ft. of the surface of Central Bridge over Merrimack River. B. H. Davis, Whitehall Bldg., 17 Battery Pl., New York, Consult. Engr. (See adv. Oct. 5 issue.)

N. Y., North Tonowanda—(Official)—State Highway Comn., Albany, did not make plans for bridge over Tonowanda Creek to be built jointly by state and New York Central R.R. Noted Sept. 28.

N. J., Jersey City—Bd. Comrs. receiving bids Oct. 17 for lift bridge and approach over Morris Canal at foot of Yale St. C. A Van Keuren, City Engr.

N. J., Newark—City rejected bids for steel bridge over tracks of Central R.R. of New Jersey on Port St. New bids. About $70,000. M. R. Sherrard, City Engr. Noted Oct. 5.

N. J., South Orange—Lehigh Valley R.R. plans bridge on Boyden Ave. E. B. Ashby, 143 Liberty St., New York, Ch. Engr.

Penn., Enhaut—Philadelphia & Reading R.R. applied to Swatara Township Comrs. for permission to build rein.-con. bridge across Rutherford subway. S. T. Wagner, Philadelphia, Ch. Engr.

Penn., Reading—City plans bridge over tracks of Lebanon Valley R.R. on Tulpehocken St. E. Ulrich, City Engr.

Va., Chesterfield—(Official)—State Highway Comn., Richmond, receiving bids Oct. 17 for rein.-con. bridge over Falling Creek. R. T. Sunday Co., 2 North 11th St., Richmond, Engr.

W. Va., Boaz—Kanawha Traction and Electric Co. plans viaduct at Boaz. P. P. Crafts, Parkersburg, Gen. Mgr.

N. C., Asheville—Buncombe County receiving bids Oct. 25 for concrete bridge over French Broad River at foot of West Hayward St.; also 3 steel bridges over French Broad River at Alexander, Pearsons Dr. and to replace Long Shoals Bridges. Address County Clk., Asheville.

Ga., Eatonton—County Comrs. receiving bids Oct. 17 for steel bridge over Indian Creek near Eatonton. C. B. Alford, Eatonton, Chn.

Fla., Crestview—City made plans for bridge about one-half mile long over Shoal River at Millage Cox Plance crossing, about $500,000.

Fla., Tampa—See item under "Streets and Roads."

Miss., Lucedale—Georgia County voted $90,000 bonds for bridges and roads. Address County Clk., Lucedale.

Ohio, Cleveland—Cuyahoga County receiving bids Oct. 18 for bridge work per report No. 3943. W. A. Stinchcomb, County Surv.

Ohio, Cleveland—City plans to repair West 3rd St. Bridge, about $30,000. R. Hoffman, City Engr.

Ind., Ft. Wayne—City making plans for State St. Bridge, about $65,000. F. M. Randall, City Engr. Noted Sept. 28.

Ill., Bloomington—(Official)—McLean County receiving bids Oct. 14 for 4 bridges in Yates Township. R. O. Edwards, Room 312, Court House, County Supt. Highways. Noted Sept. 7.

Bridges (Continued)

Ill., Kankakee—Kankakee County plans to repair West Station St. Bridge over Kankakee River. About $10,000. Address County Clk., Kankakee.

Ill., Wilmington—(Official)—Grundy County receiving bids Oct. 14 for steel bridge in Greenfield Township, about $8,730. F. W. Stine, Morris, County Supt. Highways.

Iowa, Clarinda—Page County soon receives bids for bridge over West Nodaway River, two 75-ft. spans, one 100-ft. span and 24-ft. roadway, about $25,000. C. W. Duke, Clarinda, County Audr. Noted July 20.

Minn., Minneapolis—See item under "Streets and Roads."

Minn., Owatonna—City plans election in November to vote on $20,000 bonds for bridge over Straight River at Bridge St.

S. D., Mitchell—Davidson County receiving bids Jan. 1 for 16 small and 2 large bridges, about $20,000. J. M. Crampton, Mitchell, Audr. Noted Oct. 5.

Mo., Carrollton—Carroll County election Nov. 7 to vote on $100,000 bridge bonds. Address County Clk., Carrollton.

Ark., Pine Bluff—County plans steel bridge on new road to free bridge. C. M. Philpot, Pine Bluff, County Judge.

Tex., Orange—County Comrs. plans election to vote on bonds for bridge across Sabine River at foot of Green St. Address County Clk., Orange.

Okla., Freedom—County plans election to vote on $24,000 bonds for bridge work in O'Bryan, Penn and Paterson Townships. Address Clk., Freedom.

Okla., Okmulgee—City Comn. plans bridge over Okmulgee Creek.

Okla., Tulsa—City and Tulsa St. Railway Co. plans to repair Third St. Viaduct, about $6,071. E. C. Hughes, City Engr.

Okla., Wetumka—Property owners voted $33,000 bonds for roads and bridges.

N. Mex., Chaperito—San Miguel County soon receives bids for steel bridge over Gallinas River at Chaperito. Address Clk., Las Vegas.

N. M., Santa Rosa—County receiving bids Oct. 23 for 2 steel bridges, 1 across Truchers Creek at Ft. Sumner and 1 across Pecos Creek at Delia. Address County Clk., Santa Rosa.

N. M., Socorro—(Official)—Bd. Comrs. Socorro County receiving bids Oct. 16 for 75-ft. steel bridge with 84-ft. pile trestle approach on one and 63-ft. pile trestle approach on other end over San Francisco River near Reserve. E. L. Fortune, Socorro, Clk. Noted May 18.

Wash., Seattle—King County soon receives bids for steel bridge over Green River at Horton's Ranch, about $10,000. Address County Clk., Seattle.

Wash., Spokane—City receiving bids Oct. 19 for concrete bridge over Spokane River on Post St., about $35,000. M. Macartney, City Engr. Noted Aug. 2.

Calif., Barstow—(Official)—San Bernardino County receiving bids Oct. 23 for repairing and enlarging bridge over Mojave River at Barstow, also for system of pile protection work. About $8,500. Address Clk., San Bernardino.

Calif., Bonsall—(Official)—San Diego County receiving bids Oct. 16 for bridge over Moosa Creek near Bonsall. J. T. Butler, San Diego, County Clk.

Calif., Oroville—County receiving bids Oct. 16 for bridge on Palm Ave. C. F. Belding, Oroville, Clk.

Calif., San Diego—(Official)—San Diego County receiving bids Oct. 16 for pile trestle approach to bridge over Sweetwater River on county road from Dehesa to Descanso, also alternate bids for 100-ft. extension of present type of structure. J. T. Butler, San Diego, County Clk.

Ont., Etobicoke—Town plans bridge to connect Baker Ave. with Concession. A. S. Barratt, Islington, Clk.

Ont., Scarboro—Council plans to replace Smith's Bridge on Fifth Concession south of Unionville with concrete structure. W. D. Annis, Scarboro, Clk.

Ont., Toronto—Bd. Control granted permission to Gutta Percha and Rubber Co., Ltd., for bridge across West Lodge Ave.

Ont., Wellington—Wellington County making plans for bridge, about $35,000. F. McArthur, Guelph, Engr.

Bids In and Contracts Awarded

Conn., Hartford—State Highway Comn. let contract bridge work in Plymouth Township to H. S. OSBORN, about $5,000.

Penn., Bryn Athyn—Philadelphia & Reading Ry. let contract bridge for Philadelphia, Newtown & New York R.R. to J. E. BRENNEMAN CO. for substructure; McCLINTIC-MARSHALL CO. for superstructure and B. FOSTER CO. for waterproofing.

Penn., Greensburg—City let contract steel bridge to R. GALARDI, Connellsville, about $9,000.

Penn., Johnstown—City let contract bridge over Soloman Run at Jacoby St. to E. ARTHUR JAMES, Johnstown.

Penn., Philadelphia—City received low bid bridge over tracks of Pennsylvania R.R. on 5th St. from W. A. Mundy; on 40th St., M. & J. B. McHugh. C. Albright, City Engr.

Penn., Uniontown—County let contract bridge over Brown River to BROOK & CORNISH.

Va., Bowling Green—(Official)—Caroline and Hanover Counties rejected bids for bridge over Pamunkey River. Noted Sept. 21.

N. C., Gastonia—(Official)—Gaston County let contract 2 steel highway bridges over South Fork River to VIRGINIA BRIDGE AND IRON CO., Roanoke, about $7,997. Noted Sept. 28.

Ga., Atlanta—Fulton County let contract new approaches and abutments to Garrett's Bridge over Chattahoochee River connecting Fulton and Cobb Counties to AUSTIN BROS., 156 Greenwood Ave., about $11,890.

Fla., Clearwater—Clearwater Island Bridge Co. let contract 9,000 ft. bridge over Clearwater Bay to E. W. PARKER, Tampa. Noted Sept. 28.

Fla., Deerfield—(Official)—City let contract steel highway bridge to J. FRITZ & SON, Dania, about $4,850. Noted Sept. 14.

Fla., Hallendale—(Official)—City let contract steel highway bridge to J. FRITZ & SON, Dania, about $4,940. Noted Sept. 14.

Ky., Ludlow—City let contract viaduct on Elm St. to BUTLER & TYLER CO., Louisville, about $25,751. Noted Aug. 31.

Ohio, Delphos—Allen County let contract Mullen Bridge, Marion Township, to J. F. WHIRRET & CO.

Ind., Monticello—(Official)—County let contract bridge to O. E. SHAFER, Royal Center. Noted July 20.

Ind., Shelby—Cleveland County let contract 3 bridges to AUSTIN BROS., Dallas, about $39,800.

Ill., Canton—Fulton County let contract bridge in Union Township to ILLINOIS BRIDGE CO., about $9,690. Noted July 13.

Ill., New Canton—(Official)—State Highway Comn. let contract bridge in Pike County to G. GRIFFITHS, JR., 428 Odd Fellows Bldg., St. Louis, $9,343.

Ill., Taylorville—(Official)—Christian County let contract Cemetery Bridge, Bear Creek Township, to DECATUR BRIDGE CO., Decatur, about $11,600.

Ill., Vandalia—Fayette and Montgomery County let contract county line bridge work to C. F. SMITH, Vandalia.

Kan., Neodesha—Wilson County let contract bridge over Verdigris River to WESTERN BRIDGE CO., Harrisonville, Mo., about $7,744. Noted Sept. 7.

Mo., Kansas City—City let contract culvert on 51st St. near Indiana Ave. to M. WALSH, $5,526. Noted Oct. 5.

Mo., Kansas City—City let contract bridge over Wyandotte St. on 31st St. to M. CARROLL CO., $11,363. Noted Oct. 5.

Mo., Kansas City—City let contract bridge over McGee St. Trafficway on 26th St. to FOX-REDPATH CONSTRUCTION CO., $13,132. Noted Oct. 5.

Mo., Kansas City—City let contract arch bridge over Brush Creek on Troost Ave., to FOX-REDPATH CONSTRUCTION CO., $16,676. Noted Oct. 5.

Ariz., Tucson—El Paso Bridge Co., at $17,727, low bidder Oracle Bridge over Rillito River.

Tex., Corpus Christi—Nueces County Comrs. let contract causeway across Nueces Bay to TERRELL BARTLET, San Antonio. About $31,500. Noted Sept. 28.

Tex., Dallas—City let contract earth approaches to Commerce St. Viaduct to D. R. MOBERLY, about $6,000.

Okla., Cordell—County let contract bridge work to BOARDMAN CO., Oklahoma City.

Okla., Crescent—County let contract Crescent Bridge to CANTON BRIDGE CO., Canton.

Okla., Davis—County let contract bridge over Washita River to MIDLAND BRIDGE CO.

Ariz., Tucson—Pima County let contract 3 bridges to MIDLAND CONSTRUCTION CO., Kansas City, Mo., about $24,700.

Ore., Portland—(Official)—Multnomah County let contract viaduct No. 7 on St. Helen's Rd. to PALMER-ELLISON CONSTRUCTION CO., Henry Bldg., $5,600. Noted Sept. 14.

Calif., Beaumont—City let contract bridge over tracks of Southern Pacific Ry. to KLUSSMAN & ELSEA, Cucamonga, about $5,003.

Ont., Chatham—Council let contract 3 rein.-con. bridges to SARNIA BRIDGE CO., Sarnia, and 2 bridges to WILLIAM STRANGE, Turnerville.

WATER-WORKS

Proposed Work

N. Y., Elmira—(Official)—Water Bd. receiving bids Oct. 17 for electrically driven centrifugal pump having capacity of 7,500,000 gal. per day. H. M. Beardsley, Gen. Mgr. Noted Sept. 28.

N. Y., Newark—(Official)—A. W. Beaven, Pres. Bd. Mgrs. State Custodial Asylum for Feeble-Minded Women, receiving bids Oct. 18 for elevated water tank. L. F. Pilcher, Capitol, Albany, State Arch. (See adv.)

N. Y., Rochester—City plans to extend water mains in Ella St. B. C. Little, Supt.

Penn., Harrisburg—City plans 35,000,000-gal. reservoir in Reservoir Park. H. E. Bowman, Supt. Pub. Safety.

Penn., Phillipsburg—(Official)—Citizens Water Co. receiving bids Oct. 23 for dam and impounding reservoir, about 3,000 cu.yd. excavation, 7,000 cu.yd. embankment, 150,000 sq.yd. stripping, 1,400 lin.ft. 20- and 16-in. pipe, 650 cu.yd. concrete and 15 tons steel and iron. M. Knowles, 2541 Oliver Bldg., Pittsburgh, Consult. Engr. Noted Oct. 5. (Se adv. Oct. 5 issue.)

Ga., Winchester—City voted $45,000 water and sewer bonds.

Tenn., Benton—City election Oct. 28 to vote on $10,000 bonds for water and sewer systems. Noted Sept. 28.

Tenn., Copperhill—See item under "Sewers."

Ohio, Alliance—City making plans for pumping station and clear water basin. Chester & Fleming, Pittsburgh, Engr. Noted Oct. 5.

Ohio, Lorain—City plans $50,000 bond issue for improving water system.

Ohio, Mt. Vernon—Council authorized $15,000 bond issue for meter system. G. Pickard, Supt.

Ohio, Zanesville—City plans water system.

Ind., Argos—City plans to install 2,500 ft. of 4-ft. and 1,000 ft. of 2-ft. water pipe line. C. E. Vandorn, Supt.

Mich., Bay City—(Official)—City retained Burns & McDonnell, Consult. Engr., Interstate Bldg., Kansas City, Mo., to prepare plans, estimates and report on consolidating East and West Side water plants, procuring of new supply by extension of intake to Saginaw Bay and designing new modern filter system of approximately 22,000,000 gal. capacity. About $1,000,000. E. L. Dunbar, Supt.

Mich., Flint—City receiving bids Oct. 17 for excavating for filter plant. Noted Sept. 14.

Mich., Holland—City making plans for 1,000,000-gal. reservoir. R. B. Champion, Supt. G. S. Williams, Ann Arbor, Engr.

Mich., Otsego—City voted $30,000 water-works bonds.

Ill., Gaylord—Citizens voted $15,000 water-works bond.

Wis., Castlewood—Citizens voted $20,000 water bonds.

Wis., Wausau—Wisconsin Inspection Bureau recommended that city install pumping unit of 3,000,000 gal. capacity or reservoir of 25,000,000 gal. capacity. H. Gross, Supt.

Minn., Duluth—City made plans for water main in East 4th St., about $25,119. E. W. Kelly, Duluth, Engr. Water and Light Dept. Noted July 20.

Minn., Minneapolis—K. E. Alexander, City Pur. Agt., receiving bids Oct. 23 for 30,000,000-gal. motor driven centrifugal pump for water-works.

Kan., La Crosse—City plans water system.

Kan., Moran—City sold $30,000 water-works bonds. Noted Sept. 28.

Neb., Havelock—City plans to extend water mains in East Havelock. H. H. Gregg, Havelock, Supt.

N. D., Castlewood—Citizens voted $20,000 water bonds.

Wyo., Pine Bluffs—Citizens voted $8,000 water bonds. K. Gardner, Supt.

Mo., Carrollton—Water, Light and Transit Co. making plans for 400,000-gal. filter system. H. W. Graham, Supt.

Mo., St. Louis—Bd. Pub. Wks. made plans for improving water system.

Ark., Magnolia—W. Gantt interested in organization of company which plans to install water system in Magnolia. About $10,000.

Ark., Walnut Ridge—City making plans for water system. W. G. Johnson, Act. Recdr. Noted June 22.

Tex., Dallas—Flippen-Prather Realty Co. plans to extend water-works.

Tex., Higgins—(Official)—City making plans for water-works, about $20,000. H. E. Elrod, Interurban Bldg., Dallas, Engr.

Tex., Leonard—Citizens voted $8,000 water bonds. Noted Sept. 7.

Tex., Merrypeal—Citizens voted $7,000 water bonds.

Tex., Port Arthur—City plans $175,000 bond issue for improving water and sewer systems. D. K. Miller, Supt.

Tex., Tioga—City plans to improve water system.

Tex., Weimer—City plans to issue $15,000 water bonds. Noted July 20.

Okla., Arnett—City plans election to vote on $65,000 water bonds.

Okla., Beggs—City election soon to vote on bonds for water system. Noted Sept. 21.

Okla., Enid—City election Nov. 7 to vote on $50,000 bonds for water system. F. W. Brooks, Supt. Noted Aug. 17.

Okla., Marlow—City plans expenditure of $50,000 for improving water system. L. A. Ponchett, Supt. Noted Sept. 14.

Okla., Wilburton—City making preliminary surveys for water system. McIntosh-Walton Engineering Co., Oklahoma, Engr.

Idaho, Pocatello—(Official)—City receiving bids Oct. 17 for 25,000-ft. 12-in. woodstave pipe line from Pocatello to Gibson Jack Creek. E. S

Water-**Works (Continued)**

Anderson, **Pocatello**, Consult. **Engr. (Noted Sept.** 28. **(See adv. Oct. 5 issue.)**

Wash., Leavenworth—City plans auxiliary water system. G. A. Burgett, Supt.

Ore., Albany—A. L. Porter, Albany, applied to State Engineering Dept. for permission to appropriate 3 second feet of water from Roaring Creek to supply Linn County with pure water by means of a pipe line 23 mi. long. About $226,000.

Ore., Condon—Balfour-Guthrie Cement Co. plans reservoir and pipe line. W. R. Cook, Mayor.

Ore., Richland—City election soon to vote on bonds for water system.

Calif., Alhambra—City plans to acquire or build water-works and sewage-disposal plant, $324,000 water bonds and $13,000 sewer bonds having been sold Oct. 2. W. F. Goble, Supt.

Calif., Coalinga—City making plans for water-works. F. G. Dessery, Los Angeles, Engr. Noted Sept. 14.

Calif., Lordsburg—Claremont Co-operative Water Co. plans reservoir. E. W. Browning, Mgr.

Calif., Los Angeles—City voted $200,000 water bonds. H. Hamlin, City Engr. Noted Aug. 24.

Ont., Hamilton—City making plans for water system, about $300,000. E. R. Grey and J. Bain, Hamilton, Engr.

Ont., Islington—City making plans for water system.

Bids In and Contracts Awarded

Penn., Philadelphia—Dravo-Doyle Co., at $75,120, for 35,000,000 gal. pump at Lardners Point on Delaware River and $73,420, for 25,000,000-gal. pump at Queens Lane Station on Schuylkill River only bidder received by Dept. Pub. Wks. Noted Sept. 28.

Ohio, Cleveland—City let contract water mains in East 132d St., Kemper and Haddon Rd., North and South Moreland Blvd and Gomers Ave., to J CONNELLY CONSTRUCTION CO., Leader-News Bldg., Cleveland, $10,649. Noted Sept. 14.

Ohio, Lima—City let contract addition to pumping station to M. J. KELLEY.

Ill., Galesburg—City let contract water mains on Jefferson, North Cherry, South Pearl and West First St. to EVANSTON CONSTRUCTION CO. Noted Sept 7.

Wis., Fond du Lac—Bd. Pub. Wks. let contract 13,000-ft. c.-i. water main to A. CHRISTIANSEN, Fond du Lac. Noted Sept. 21.

Iowa, Corning—City let contract reservoir to E. T. ARCHER & CO., Kansas City, Mo. Noted Sept. 28.

Minn., Eveleth—City let contract water mains and sewer pipe to LAWRENCE-McCANN CO., about $7,365.

Minn., Gilbert—City let contract water main to LAWRENCE-McCANN CO., Eveleth, about $9,000.

N. D., New England—City let contract water system to SECURITY BRIDGE CO., 36th and Hiawatha St, Minneapolis.

Okla., Woodward—(Official)—City to spend $12,500 for improving water system by day labor. F H. Kilburn, Supt. Noted Sept. 21.

Ont., New Toronto—Town let contract mechanical filters to AMERICAN WATER SOFTENER CO., Philadelphia, Penn.

SEWERS

Proposed Work

Mass., Haverhill—L. C. Lawton, City Engr., recommended surface water drain, about $15,000.

Conn., Derby—City and New York, New Haven & Hartford R.R. approved plans for Water St. sewer system. V. B. Clark, City Engr.

N. Y., Albany—City passed ordinance for sewers in portions Bertha, Marshall, Corlaer St. and Hoffman and First Ave. F. R. Lanagan, City Engr.

N. Y., New York—(Brooklyn)—L. H. Pounds, Borough Pres., Room 2, Borough Hall, receiving bids Oct. 18 for sewers in 16th, 15th and 5th Ave. and 64th, 63d and Newport St.

N. Y., New York—(Queens)—M. E. Connolly, Borough Pres., Borough Hall, 5th St. and Jackson Ave., Long Island City, receiving bids Oct. 20 for sewers and appurtenances in portions Rust, Flushing, California and Forest Ave., Second Ward; Lawson Pl. and California and Linden Ave., Third Ward; Syoset and Beaufort Ave. and Emerson St., Fourth Ward.

N. Y., Rochester—City plans sanitary sewer in Highland Ave. About $4,500. F. T. Elwood, City Engr.

N. J., Camden—City receiving bids Oct. 16 for brick sewer in portion Mulford St. L. E. Farnham, City Engr.

N. J., Passaic—Union Township Comrs. passed ordinance for sewer system. C. R. Wise, City Engr.

N. J., Paterson—Bd. Pub. Wks. plans sewers in Lly, Grove, East 23d, East 27th and East 28th St. and Hamburg and Michigan Ave. H. G. Hardes, City Engr.

N. J., Union—(Official)—Union Township Comrs., Bergen County, receiving bids Oct. 27 for sewers and disposal plant. John F. Woods, Odd Fellows' Hall, 505 Valley Brook Ave., Lyndhurst, Township Clk. F. Bowe, East Rutherford, Civil Engr. (See adv.)

Penn., Clarion—Borough retained Chester & Fleming, Engr., Pittsburgh, to make plans for sewer system.

Penn., Donora—City plans sewers in McRae and Modisetta Ave. E. J. Frams, City Engr.

Penn., Dravosburg—City soon receives bids for sanitary and storm sewer in Washington, 5th, Ash and 7th St., about $7,000. R. C. Payne, McKeesport, Engr.

Penn., Erie—City plans sewage system and disposal plant. G. Lynch, City Engr.

Penn., Portage—City plans to extend sewer system.

Penn., Reading—City making plans for sewer system and disposal plant at Municipal Hospital. Mebus & Albright, Land Title Bldg., Philadelphia, Engr.

Penn., Youngville—City approved preliminary plans for disposal plant. C. C. Hill, North East, Engr.

W. Va., Huntington—City soon receives bids for storm sewer system on south side. About $10,000. J. H. Sanborn, Asst. City Engr.

S. C., Spartenburg—City making preliminary plans for extending sewer system. R. Lull, City Engr.

Ga., Atlanta—City appropriated $7,500 for extending Highland Ave. Sewer. H. N. Hurt, City Engr.

Ga., Winchester—See item under "Water-Works."

Tenn., Benton—See item under "Water-Works."

Tenn., Copperhill—(Official)—City receiving bids Oct. 18 for water and sewer systems. W. G. Kirkpatrick, 794 Farley Bldg., Birmingham, Ala., Engr. Noted Sept. 7.

Ohio, Bucyrus—City plans sanitary and storm sewer in Medlawn Addition. M. J. Lutz, Dir. Pub. Ser. F. L. Neiderheiser, Engr.

Ohio, Cincinnati—City passed ordinance for sewers in portion Jenifer Court. F. Krug, City Engr.

Ohio, Lorain—Council voted to build sewers in West 20th and 23d St. and storm sewers in Charleston, Tacoma and Denver Ave. and C St. C. M. Osborne, City Engr.

Ohio, Marion—City to vote in November for $218,000 bonds for sewer in West Center St. H. H. Noyes, City Engr.

Ohio, Massillon—City plans sewer in North Grant St. H. McYost, City Engr.

Ohio, Sandusky—City plans sewers in Ging St. A. F. Johnston, City Engr.

Ind., Indianapolis—City receives bids about Oct. 15 or Nov. 1 for 2 mi. sewer in West 10th St., about $125,000. B. J. T. Jeup, City Engr.

Ind., Indianapolis—City making plans for sewer in Brightwood Ave., about $150,000. B. J. T. Jeup, City Engr.

Ind., Indianapolis—City plans sewer in portion Main St. About $250,000. J. T. Jeup, City Engr.

Ind., South Bend—City plans sewer in portion Foster St. F. J. Anderson, City Engr.

Ind., South Bend—City plans sewer in portion McPherson St. F. J. Anderson, City Engr.

Mich., Grand Rapids—Plans made for sewer in portion Pearl St. About $9,000. W. S. Moore, City Engr.

Mich., Pontiac—City plans sewage disposal plant. W. J. Fisher, City Engr.

Ill., Elgin—City plans to extend sewer system, about $20,000. M. H. Brightman, City Engr.

Wis., Appleton—City receiving bids Oct. 18 for sewers in Spring St. E. L. Williams, City Clk. A. C. Remley, City Engr.

Wis., Burlington—City making plans for storm sewer in Wilmette Ave. and Frederick St., about $11,500. J. P. Hurtgen, Engr.

Wis., Fond du Lac—City receiving bids Oct. 18 for sewer in Spring St. E. L. Williams, City Clk.

Iowa, Conrad—City plans sewers.

Iowa, Manchester—City receiving bids Oct 16 for sanitary sewers. L. B. Matthews, City Mgr.

Minn., Eveleth—See item under "Water-Works."

Kan., Garden City—City making plans for sewer system, about $45,000. Ruckel Engineering Co., Hutchinson, Engr.

Neb., Oxford—City voted bonds for sewer system. Noted July 20.

Neb., Red Cloud—City election Oct. 17 to vote on $20,000 sewer bonds. Grant & Fulton, Bankers' Life Bldg., Lincoln, Neb., Engr.

N. D., Fargo—City soon lets contracts for sewers, about $300,000. F. L. Anders, City Engr. Noted Sept. 14.

Wyo., Cheyenne—City soon votes on bonds for storm-sewer system. R. D. Goodrich, City Engr.

Mo., Higginsville—City voted $22,000 bonds for sewer system and disposal plant. Burns & McDonnell, Interstate Bldg., Kansas City, Engr. Noted Sept. 28.

Tex., Cisco—City voted $20,000 bonds for sewer system. Noted Sept. 28.

Tex., Palestine—City soon to vote on sewer bonds. A. L. Myers, City Engr. Noted Mar. 9.

Tex., Port Arthur—See item under "Water-Works."

Utah, Salt Lake City—City receiving bids Oct 17 for sewer extension No. 368 in 21st St., S. G. Snow, City Recdr. S. Q. Cannon, City Engr.

Ariz., Flagstaff—City plans to vote on bonds for extending sewer system. O. M. John, Mayor.

Wash., Spokane—City Council plans sewer in portion 32d St. M. Macartney, City Engr.

Ore., Astoria—Council plans sewage and draining system in Dist. No. 2. G. T. McCrean, City Engr.

Calif., Alhambra—See item under "Water-Works."

Ont., Belleville—City Council plans sewers in portion North Front and Moira St. Bids soon to be received. J. W. Evans, City Engr.

Ont., St. Thomas—Bd. Pub. Wks. making plans for storm sewers. M. Ferguson, City Engr.

Ont., Stratford—Bd. Pub. Wks. recommended sanitary sewer in St. Vincent St. A. B. Manson, City Engr.

Bids In and Contracts Awarded

Mass., Needham—Metropolitan Water and Sewerage Bd. let contract concrete sewer, Sect. 102 of High Level Sewer, Wellesley Extension, to BRUNO & PETITTI, 18 Tremont St., Boston, $62,042. Noted Sept. 21.

N. J., Camden—City let contract sewers portions 10th and Clair St. to B. F. SWEETEN & SON, 111 North Delaware Ave.

N. J., Pitman—City let contract sewage-disposal plants to J. E. BUNTING CO., Flushing, N. Y., $33,472; sewers to MARTIN, MILLER & PIZZIMENTI, Caldwell, $67,498.

Penn., Langeloth—American Zinc and Chemical Co. let contract sewage-disposal plant to WILKEY & BAKER, Uniontown, about $25,000.

Penn., Pittston—City let contract trunk sewer to O'BRIEN BROS., Avoca, about $78,000.

Penn., Steelton—Borough Council let contract storm sewers to G. W. ENSIGN, INC., Harrisburg, $64,748.

Ala., Birmingham—City let contract sewers to A. C. BROOKS, Birmingham, $12,000. J. Kendrick, City Engr.

Ala., Piedmont—City let contract sewer system to J. B. McCRARY & CO., Atlanta, Ga., $20,000. Noted Aug. 17.

Ky., Lexington—City let contract sewers in Bridge, Water and Poplar St. to J. R. POINDEXTER & SON, Lexington.

Ohio, Canton—City let contract sewer in Dartmouth Ave. to WISE BROS., about $5,488. Noted Sept. 14.

Ohio, Cleveland Heights (Warrensville post office)—Village let contract storm and sanitary sewer to J. W. CHAPMAN, 1653 Ridgefield Rd.

Ohio, Lorain—City let contract sewers in Carolina Ave., East 35th St. and Toledo Ave. to T. TRIFOLLETTI, $4,178. Noted June 22.

Ohio, Mt. Gilead—City let contract west end sewer system and disposal plant to T. F. HURLEY, Marion, $7,101. Noted Aug. 10.

Ohio, Piqua—City let contract Joseph Small storm sewer to C. F. SMITH & SON, Dayton; South St. sanitary sewer to J. M. HENNESSEY & BRO., Piqua; Covington Ave. storm and sanitary sewer to BOYD & COOK, Dayton. Noted May 25.

Ohio, Portsmouth—Whitaker-Glessner Co. let contract rein.-con. sewer from Spillway to Ohio River to DRAVO CONSTRUCTION CO., Pittsburgh, about $100,000.

Ohio, Toledo—Lucas County let contract Main Sewer No. 19 to E. H. CLOSE CO., 513 Madison Ave., about $31,500.

Ohio, Xenia—City let contract storm sewers to ANDREWS ASPHALT PAVING CO., Hamilton.

Ind., Mishawaka—Br. Pub. Wks. let contract sewers in Home and Studebaker St. to REESH & CARTER. C. Cole, City Engr.

Mich., Bay City—Bd. Pub. Wks. let contract sewer in Smith St. to T. KENT & CO.

Mich., Muskegon—City let contract Highland Park Sewer No. 26 to E. W. KRUEGER, about $5,739.

Ill., Belleville—City let contract sewers in Sauter Heights Sewer Dist. to HOEFFKEN BROS. SUPPLY AND CONSTRUCTION CO., 222 West B St.

Ill., Milford—Bd. Local Impvt. let contract storm and sanitary relief sewer to CARSON-PAYSON CO., 144 North Hazel St., Danville, about $15,336.

Wis., Delavan—City let contract sewers to J. H. TEETER, Delavan.

Wis., Waupun—City let contract sewers to G. W. MULHOLLAND, Rockford, Ill., $23,211. Noted Sept. 21.

Iowa, Creston—City let contract sewers to AIKIN & FLUTTER, Corning. Noted Aug. 24.

Iowa, Emmetsburg—City let contract storm sewers to ZITTERELL & SULLIVAN, Webster City, $25,230. Noted Aug. 10.

Iowa, Essex—City let contract 7,000 ft. sewer and 9,000 ft. water mains to J. J. DUNNEGAN and F. H. MITCHELL, Shenandoah, at $0.67 per ft. for sewer and $0.63 for water mains.

Iowa, Estherville—City let contract sanitary sewers to HUBBARD & HANNA. Noted Aug. 10.

Sewers (Continued)

Iowa, Sioux City—City let contract sanitary sewer in South Mulberry St. to F. T. LEEDER.

Minn., Moran—City let contract sanitary sewer to S. E. JACKSON, Sioux City, Iowa.

Kan., Abilene—City let contract sewers to E. D. REED, Clay Center, $11,300.

N. D., Grand Forks—City let contract sewer to CARROLL BROS.

Okla., Altus—(Official)—City let contract sanitary lateral sewers to SANITARY PLUMBING CO., Altus. Noted Aug. 31.

Ont., Lindsay—City to construct sewer by day labor.

Ont., Toronto—Bd. Control let contract relief sewer in Sparkhill Ave. to CONNOLLY-AGNEW CONSTRUCTION CO. About $28,200. Noted July 20.

Ont., Toronto—Bd. Control let contract sewer in Weston Rd., S., to GODSON CONTRACTING CO., LTD., Manning Chambers.

GARBAGE

Proposed Work

Ohio, Canton—City soon receives bids for disposal of garbage for period of 10 years. W. E. Sarver, City Engr.

Mich., Hamtramck—City plans incinerating plant.

Ill., Berwyn—City plans garbage incinerator.

Ill., Highland Park—(Official)—City rejected bids received Sept. 8 for garbage incinerator. New bids received Oct. 13. E. A. Warner, City Clk. Noted Sept. 7.

Tex., San Antonio—City Comn. plans garbage incinerator. A. C. Pancoast, City Engr.

Bids In and Contracts Awarded

N. Y., New York—(Manhattan)—(Official)—Low bids received Oct. 5 for removal of snow and ice during winter season of 1916-1917 from Celestino Demarco, 50 Spring St., $0.384 per cu.yd., Snow Contracting Co., $0.39, Daniel Rogge, $0.4785; removal of snow and ice during winter season 1916-1917 by snow removal districts from J. J. B. La Marsh, Queens Plaza, Long Island City, $0.45 per cu.yd., Dist. No. 1 Noted Sept. 28.

Penn., Reading—City rejected bids received for garbage disposal plant. About $200,000. C. Marks, City Clk. Noted Sept. 7.

Ga., Griffin—City let contract garbage incinerator to NYE ODORLESS CREMATORY CO., Macon. Noted Aug. 17.

Iowa, Council Bluffs—City let contract to PRICE GIBSON to remove garbage for period of 5 years and build reduction plant. Noted May 11.

STREETS AND ROADS

Proposed Work

Mass., Cambridge—Council appropriated $63,000 for paving portion Cambridge St. L. M. Hastings, City Engr.

Mass., Melrose—City plans boulevard and parkway from Melrose to Franklin St.

N. Y., New York—(Manhattan)—M. M. Marks, Borough Pres., Room 2032 Municipal Bldg., receiving bids Oct. 20 for improving portions Haven and Seaman Ave. and 218th St., asphalt.

N. Y., New York—(Richmond)—C. D. Van Name, Borough Pres., Borough Hall, St. George, New Brighton, receiving bids Oct. 17 for improving portion Ridgewood Pl.

N. J., Jersey City—Bd. Comrs. receiving bids Oct. 24 for paving portion Evergreen St., asphalt. W. P. Lee, City Clk.

N. J., Montclair—Bd. Freeholders Essex County receiving bids Oct. 19 for improving portion Valley Rd. Address Clk., Newark.

N. J., Trenton—City plans to improve West End Ave., macadam. J. R. Fell, Jr., City Engr.

Penn., Cannonsburg—Borough Council sold $30,000 paving bonds. Noted July 20.

Penn., Carnegie—City passed ordinance to improve portion Jefferson St., First Ward. O. B. Heghley, City Engr.

Penn., Harrisburg—City passed ordinance authorizing improvement of portion of Oak St., also paving portion of Orange Alley. M. B. Cowden, City Engr.

Penn., Irwin — Supervs. North Huntingdon Township plan to spend $300,000 on brick roads.

Penn., Mt. Penn.—Borough Council plans $15,000 bond issue for street improvements.

Penn., New Castle—Lawrence County receiving bids Oct. 18 for grading roadway and building culverts from station to station 95 on new highway location from New Castle to New Wilmington, Neshannock Township. J. R. Lamoree, Court House, Clk.

Penn., Pittsburgh—City plans to repave Liberty Ave., about $17,000. R. Swan, City Engr.

Penn., Williamsport—City plans improving portion of Campbell St. J. B. Otto, City Engr.

Del., Wilmington—St. and Sewer Comn. plans to macadamize section Shipley St. E. N. Hoopes, City Engr.

Md., Baltimore—City plans to pave portion Center St. R. M. Cooksey, City Engr.

Md., Baltimore—(Official)—Bd. Awards, City Hall, receiving bids Oct. 18 for about 1¾ mi. tarvia macadam road at Loch Raven. Proposals to be marked "Original" and "Duplicate," endorsed "Bid for building and paving Rd. No. 4, Loch Raven, Contract 44, Water Dept. W. E. Lee, Water Engr. (See adv. Oct. 5 issue.)

W. Va., Hinton—Summers County receiving bids Oct. 27 for improving 15.84 mi. road in Talcott Dist. Address County Clk., Hinton.

W. Va., Madison—Boone County defeated $450,000 road bonds. Noted Sept. 14.

N. C., Asheville—Comrs. Buncombe County, Asheville, plan 3½ mi. sand clay road and Comrs. Madison County, Marshall, 6½ mi., two roads to meet at Forks of Ivy. Address County Clks., Asheville and Marshall.

N. C., Morganton—Burke County, Lovelady Township, voted $50,000 road bonds. Address County Clk., Morganton. Noted Sept. 14.

N. C., Morganton—Burke County, Silver Creek Township, voted road bonds. Address County Clk., Morganton.

N. C., Morganton—Burke County, Upper Fork Township, voted bonds for road work. Address County Clk., Morganton.

Ga., Atlanta—Fulton County plans to pave 10th St. and Virginia Ave., about $35,000. Address County Clk., Atlanta.

Fla., Ft. Lauderdale — (Official) — Broward County receiving bids Oct. 23 for about 10 mi. roads to be portion Dixie Highway. H. C. Davis, Ft. Lauderdale, Engr.

Fla., Tampa—Hillsborough County, Wimauma Dist., election Oct. 31 to vote on $22,500 bonds for road from Wimauma south to county line and bridge over Little Manatee River. Address County Clk., Tampa.

Ala., Birmingham — (Official) — Bd. Revenue Jefferson County receiving bids Nov. 1 for 15.2 mi. roads, 204,575 cu.yd. earth excavation, 57,850 cu.yd. loose rock, 64,850 cu.yd. solid rock, 7,205 lin.ft. c.-i. culvert pipe and cement bridges. G. H. Clark, Birmingham, County Engr. Noted Aug. 3.

Ala., Birmingham—City plans to pave portion Ave. F, asphalt, about $45,000. Julian Kendrick, City Engr.

Miss., Greenwood—Bd. Superv. Leflore County will gravel 4.75 mi. road. Address Clk., Greenwood.

Miss., Lucedale—See item under "Bridges."

Miss., Winona—(Official)—City sold $100,000 road bonds. W. F. Blackston, City Clk. Noted Sept. 28.

La., Lake Charles—(Official)—City rejected bids for paving Boulevard St. New bids. E. L. Gorham, City Engr. Noted Sept. 14.

La., Lake Charles—Calcasieu County, Calcasieu Parish, sold $900,000 road bonds. Address County Clk., Lake Charles. Noted Sept. 28.

Tenn., Manchester—(Official)—Coffee County election Nov. 10 to vote on $250,000 road bonds. J. A. Gibson, Manchester, Clk. Noted Sept. 23.

Ky., Jenkins—Consolidated Coal Co. will not receive bids until next spring for paving, curbing, guttering and cement sidewalks. Noted Aug. 31.

Ky., Whitesburg—City election Nov. 7 to vote on $5,000 bonds for improving streets and sidewalks.

Ohio, Canton—City plans election to vote on $82,000 street improvement bonds. W. E. Sarver, City Engr.

Ohio, Cincinnati—(Official)—Hamilton County receiving bids Oct. 20 for improving Pattison Rd. No 376 from Bogart Rd. to Ohio Pike, Anderson Township. A. Reinhardt, Cincinnati, Clk.

Ohio, Cincinnati—Council soon lets contract for improving 31st St. with brick. About $12,116. F. S. Krug, City Engr.

Ohio, Cincinnati—City plans election in November to vote on $18,000 for paving with granite public landing. Philip Fosdick, Dir. Pub. Ser.

Ohio, Cleveland—Comrs. Cuyahoga County plans to improve portions Ridge, Som Center and Porter Rds. E. G. Krause, Clk., and W. A. Stinchcomb, Cleveland, Surv.

Ohio, Maple Heights—(Worthington post office) Town passed resolution to grade, drain and build sidewalks on Milo, Beach and Broadway St. G. S. Holtz, Clk.

Ohio, Marion—(Official)—City receiving bids Oct. 19 for resurfacing Bellefontaine Ave., asphalt. E. S. Ault, City Engr.

Ohio, Massillon—City to vote Nov. 7 on $58,890 bonds for improving portion of Main St. H. M. Yost, City Engr. Noted Aug. 31.

Ohio, Newark—City passed resolution to improve portion 7th St. C. H. Wells, City Engr.

Ohio, Osnaburg—Stark County receiving bids Oct. 16 for improving Nassau St., brick. Address County Clk., Canton.

Ohio, Ottawa—(Official)—Putnam County receiving bids Oct. 16 for improving Fred Louse Rd., Jennings Township, and J. A. Unverferth Rd., Union Township. J. E. Roose, Ottawa, Audr.

Ohio, Sandusky—Council passed ordinance to improve portion Center St. A. F. Johnson, City Engr.

Ohio, Toledo—City plans paving with brick or concrete about 3 mi. road. H. C. McClure, Engr. Dept. Pub. Ser.

Ind., Brazil—Clay County receiving bids Oct. 25 for stone and gravel road on line between Posey and Perry Townships. W. O. Graeser, Brazil, Audr.

Ind., Columbus—Bartholomew County receiving bids Oct. 25 for 3 roads in Columbus Township W. H. Scott, Columbus, Audr. Noted Oct. 5.

Ind., Huntington—Bd. Pub. Wks. receiving bids Oct. 16 for waterbound macadam pavement. H. I. Young, City Clk.

Ind., Indianapolis—Bd. Pub. Wks. receiving bids Oct. 16 for improving portion Park Ave. B. J. T. Jeup, City Engr.

Ind., Indianapolis—Bd. Pub. Wks. approved paving portion Terrace Ave. B. J. T. Jeup, City Engr.

Ind., Kokomo—(Official)—Howard County received no bids for stone road in Clay Township W. L. Benson, Kokomo, Audr. Noted Sept. 28.

Ind., New Albany—Floyd County receiving bids Oct. 26 for 4,375-ft. road in New Albany Township. E. Dupaquier, New Albany, Audr.

Ind., New Albany—Bd. Pub. Wks. making plans for improving portion of Culbertson Ave. S. T. Mann, City Engr.

Ind., Terre Haute—Vigo County receiving bids Oct. 21 for gravel road in Harrison Township. T. Ferguson, Terre Haute, Audr.

Mich., Ann Arbor—City plans to pave about 12,000 sq.yd. Miller Ave., brick. Manley Osgood, City Engr.

Ill., Belleville—St. Clair County election in November to vote on $1,500,000 road bonds. D. O. Thomas, Belleville, County Supt. Highways. Noted Feb. 10.

Ill., Havana—City plans to pave about 32 blocks next spring.

Ill., Jacksonville—(Official)—Bd. Local Impvts. receives bids about March for paving, curbing and guttering West State St., sheet asphalt, about $52,214. Noted Sept. 28.

Ill., Mattoon—Bd. Local Imprvts. to let contract in spring for paving portion Moultic Ave., 27th and 15th St. J. A. Goetz, City Engr.

Ill., Ottawa—Bd. County Supervs. plans to improve La Salle County Rd. with brick or concrete. About $40,000. Address County Clk., Ottawa.

Ill., Ottawa—Bd. Local Imprvts. to pave downtown dist. About $108,999. G. L. Farnsworth, City Engr.

Ill., Sidell—County receiving bids Oct. 19 for about 11,600 sq.yd. highways. W. S. Dillon, Danville, Supt. County Highways.

Wis., West Bend—City plans improving several streets.

Iowa, Red Oak—(Official)—Montgomery County received bids grading highway, about 22,000 cu.yd. excavation, from T. J. Ryan, Council Bluffs, $5,500; Wilson Co., Red Oak, $5,600; McLaughlin & Son, $5,600. Noted Sept. 28.

Minn., Duluth—St. Louis County receiving bids Oct. 17 for 5 mi. road. O. Halden, Duluth, Audr.

Minn., Lewiston—Citizens voted $10,000 paving bonds.

Minn., Minneapolis—Hennipin County plans to spend $500,000 for roads and bridges in spring. E. E. Terrell, Minneapolis, County Engr.

Minn., Winnebago—City plans election to vote bonds for paving in business section. Address City Clk.

Kan., Augusta—City plans to pave State St. and 5th Ave. with brick on concrete foundation, about 140,000 sq.yd. Black & Veach, Interstate Bldg., Kansas City, Mo., Engr.

Kan., Hoisington—City receiving bids Oct. 23 for purchase of $20,000 paving bonds. O. Butler, City Clk. Noted Sept. 28.

Kan., Wichita—Council passed resolution to pave portion Estelle Ave. and 1st St. B. Wells, City Engr.

Neb., Omaha—Douglas County receiving bids Oct. 17 for paving 2 mi. West Center St., brick, about $23,700. F. Dewey, Omaha, Clk. Noted Oct. 5.

Mont., Butte—City receiving bids Oct. 18 for bitulithic pavement and gutters in Dists. Nos. 217 and 218. J. J. Armstrong, City Engr.

Mo., Joplin—City plans to grade and pave portion 3d St., concrete. J. McAfee, City Engr.

Mo., Kansas City—City soon receives bids for paving 18th St. from Grand to Woodland Ave., creosoted wood block. Curtis Hill, City Engr. Noted Apr. 27.

Ark., Dardanelle—Bd. Impvt. receiving bids Oct. 19 for about 135,140 sq.ft. concrete sidewalks, including gutters and crosswalks. Winters & Dove, Ft. Smith, Engr. Noted Aug. 17.

Ark., Eureka Springs—City soon lets contract for 235,000 sq.ft. of bitulithic pavement on Main St. W. H. Elliott, City Engr.

Tex., Brownwood—Chamber of Commerce plans bond issue for highway work. J. E. Eubanks, City Engr.

Tex., Dallas—City plans to pave portions Bishop Ave. and Elihu St. H. Moseley, City Engr.

Tex., Ft. Worth—City Comrs. plan to expend about $33,000 for improving Vickery Blvd., Dallas Pike and 4th St. F. J. Von Zuben, City Engr.

Tex., Port Arthur—City sold $64,000 paving bonds.

Streets and Roads (Continued)

Tex., Rusk—Cherokee County election Oct. 14 to vote on $300,000 road bonds. Address County Clk., Rusk.

Tex., Rusk—Cherokee County Jacksonville Precinct, election Oct. 21 to vote on $25,000 road bonds. Address County Clk., Rusk.

Tex., San Augustine—San Augustine County election Oct. 21 to vote on $45,000 road bonds. Address County Clk., San Augustine.

Tex., Terrell—City plans to pave Asylum St. H. Brewster, City Engr.

Okla., Okmulgee—Council passed ordinance to pave Alabama Ave.

Okla., Sapulpa—Creek County soon lets contract for highway across county to cost about $9,000 per mi. Address County Clk., Sapulpa.

Okla., Sapulpa—Council passed ordinance to pave Alabama Ave.

Okla., Tahlequah—Cherokee County plans election to vote on $100,000 road bonds. Address County Clk., Tahlequah.

Okla., Tulsa—Comrs. Tulsa County receiving bids Oct. 16 for 6.2 mi. highway. L. Cline, Tulsa, County Clk. (See adv.)

Okla., Wetumka—See item under "Bridges."

Idaho, Lapwai—Lapwai Highway Dist. plans election to vote on $150,000 road bonds. Noted July 13.

Idaho, Pocatello—(Official)—Council receiving bids Oct. 26 for improving South 3rd St., also grading and paving streets in Dist. No. 14, about $42,000. J. H. Giles, City Engr. Noted Sept. 28.

Ariz., Safford—Graham County election Nov. 7 to vote on $200,000 road bonds. Address County Clk., Safford.

Wash., Mansfield—City rejected bids for paving Main St. and 1st and 2d Ave., about $15,000. New bids. Noted Sept. 14.

Wash., Seattle—Plans approved for paving W. Halliday St. About $12,000. A. H. Dimock, City Engr.

Ore., Astoria—City making plans for improving Olney and other streets with asphaltic concrete, bitulithic or portland cement. G. T. McCrean, City Engr.

Ore., Portland—City plans to pave College St. with concrete or brick. About $17,000. P. Dater, City Engr.

Calif., Monterey—City Council plans improving portions of Jefferson, Pacific, Franklin and Washington St.

Calif., Upland—City receiving bids Oct. 16 for 46,000 sq.ft. concrete pavement with oil and screening surface on 19th St. F. C. Froehde, Supt.

Calif., Rio Vista—City receiving bids Oct. 19 for curbing, guttering and paving various streets. F. J. Kalber, Clk.

Calif., Santa Barbara—City plans to pave portion Bath St.

N. S., Halifax—Halifax Automobile Association advocating building of 1,500 mi. good roads.

N. B., Moncton—Bd. Wks. recommended that city pave East and West Market St., rein.-con. J. Edington, City Engr.

Ont., Belleville—City plans to pave several streets. J. W. Evans, Engr.

Ont., Brantford—Brant County plans system of good roads. A. M. Jackson, Brantford, County Engr.

Ont., London—Council plans to pave portion Wellington St., about $12,384. S. Baker, City Clk.

Ont., Ottawa—Council plans to repave Pooley's Bridge with 3-in. wood block. A. F. Macallum, Comr. Wks.

Ont., Toronto—City plans to pave portion Baliol St.

Ont., Toronto—R. Harris, Wks. Comrs., recommended that city widen Moore Ave.

Bids In and Contracts Awarded

Mass., Boston—City received low bids paving various streets in Brighton, Dorchester, East Boston and West Roxbury Dists., (a) asphalt, (b) topeka, (c) bitulithic, from Central Construction Co., 228 Southampton St., (a) $171,187, (b) $173,187, (c) $173,187; Quinlan & Roberson, Montreal, Que., (a) $175,644, (b) $173,849; D. M. Biggs & Co., 60 Marsh St., (a) $178,881, (b) $179,779. Noted Sept. 21.

Mass., Boston—City received bids paving various streets in Brighton, Dorchester, Roxbury and West Roxbury Dists. from M. De Matteo, 146 Dudley Ave., Roslindale, $61,242; J. Doherty, 133 Calumet St., Roxbury, $62,317; Coleman Bros., Chelsea, $65,466.

Mass., Boston—City let contract repaving portion Dorchester Ave., South Boston, to T. A. GILLESPIE CO., 363 Dorchester Ave., South Boston, about $11,300.

Conn., Naugatuck—City plans to pave Rubber Ave. by day labor. G. C. Ham, City Engr.

N. Y., New York—(Brooklyn)—M. J. O'HARA, 577 3d St., awarded contract repaving 30th St. from bulkhead to 2d Ave., $7,745, from 2d to 3d Ave., $11,608; STANDARD OIL CO., 26 Broadway, Manhattan, for 80,000 gal. refined asphalt, liquid form. Noted Oct. 5.

N. Y., New York—(Manhattan)—(Official)—City let contracts street improvements to: UVALDE ASPHALT PAVING CO., 1 Broadway, Park Row, $17,981, Cathedral Pkway., $23,701; ASPHALT CONSTRUCTION CO., 88th St., $20,772, 126th St., $23,759. Noted Sept. 28.

N. Y., New York—(Manhattan)—(Official)—City let contracts street improvements to: W. J. FITZGERALD, 547 West 45th St., 3d Ave., $11,915, 24th St., $14,779; ASPHALT CONSTRUCTION CO., Madison Ave. and 137th St., 17th St., $29,046; M. BAIRD CONTRACTING CO., 433 East 92d St., 31st St., $7,650, 32d St., $7,673. Noted Sept. 28.

N. Y., New York—(Queens)—(Official)—Low bidders improving portions various streets were as follows: C. A. Myers Contracting Co., foot Stagg St., Brooklyn, Corona Ave. to Justice St., $20,141, Cypress Ave., $10,571; Degnon Contracting Co., 30 East 42d St., Manhattan, Hunterspoint Ave., $15,585; Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, 118th St., $52,376; Sicilian Asphalt Paving Co., Ditmars Ave., $27,554; E. W. Fitzpatrick, 128 3d Ave., Worthington Ave., $9,517. Noted Sept. 28.

N. J., Irvington—City let contract paving and curbing Laurel Ave. to P. CAMMELLO & CO., Westfield, about $10,000. Noted Aug. 24.

N. J., Newark—City let contract paving Cedar Ave. to R. SANGIOVANNI, 50 Hoyt St., Newark, about $5,372. Noted Oct. 5.

N. J., Ridgefield Park—(Official)—Bd Comrs. let contract improving portion Gordon St. to A. W. GILL, Leonia, about $11,134. Noted Oct. 5.

N. J., Ridgefield Park—Bd. Comrs. let contract improving Grove St. to A. W. GILL, Leonia, $4.420. Noted Oct. 5.

Penn., Allentown—Barber Asphalt Paving Co., Philadelphia, at $1.44 per sq.yd., low bidder paving portions North 7th, North 6th and Linden St. C. Albright, City Engr.

Md., Baltimore—City let contract paving portion Guilford Ave. to P. FLANIGAN & SONS, Harford Ave. and 25th St.

Md., Baltimore—Baltimore Asphalt Block and Tile Co., Baltimore, at $1.78 per sq.yd., low bidder paving Gay St., asphalt; Flanigan & Sons, at $1.76 per sq.yd. for Lexington St. Noted Sept. 21.

Md., Baltimore—(Official)—State Rds. Comn. let contract resurfacing Liberty Rd. to ATLANTIC BITULITHIC CO., Richmond, about $32,529; bridge on York Rd. to B. H. MAYS, Glencoe, about $9,264. Noted Sept. 21.

Md., Baltimore—State Rds. Comn. let contract concrete road in Harford County to R. G. COLLINS, INC., 52 Vanderbilt Ave., New York, about $90,000; Anne Arundel County, F. M. DUVALL, St. Margarets, $21,079; Dorchester County, PENINSULAR CONSTRUCTION CO., Preston, $12,299. Noted Sept. 21.

Md., Frederick—Frederick County let contract Monrovia-Hyattstown Rd. to N. W. KAYLOR, Hagerstown, about $14,719. Noted Sept. 28.

Va., Bland—Bland County let contract 1½ mi. road to J. C. TUGGLE.

N. C., High Point—City let contract for 40,000 sq.yd. and alternate bids on 100,000 sq.yd. paving to R. G. LASSITER & CO., Oxford. About $50,000 available. Noted Sept. 21.

N. C., Wilson—City let contract sidewalks to R. G. LASSITER & CO., Oxford.

N. C., Winston-Salem—Forsyth County Highway Comn. let contract road from Salisbury Rd. to south end of Broad St. to HARDAWAY CONTRACTING CO., Columbus, Ga. Noted Sept. 21.

Ga., Atlanta—City let contract paving portion Peachtree St. to T. D. MEADOR, Jr., about $100,000.

Ga., Atlanta—City let contract paving portion Walton St. to JAMIESON & HALLOWELL. Noted Apr. 6.

Fla. Ft. Lauderdale — (Official) — Broward County let contract earthwork on Everglades Rd. to STURGIS & OLIVER, Ft. Lauderdale.

Fla., Jacksonville—City let contract 2 mi. sand clay road to S. SPENCER, Jacksonville, about $17,000.

Fla., Starke—City let contract 30,000 sq.yd. paving to R. L. DAVIS, Tampa.

Ky., Paducah—City let contract 27,500 sq.yd. paving to SPUTHERN BITULITHIC CO., Nashville, about $63,655. Noted Sept. 14.

Ohio, Cleveland—(Official)—City let contract improving and extending portion Hough Ave. to R. P. BURNETT, Society for Savings Bldg., $18,250. Noted Sept. 21.

Ohio, Cleveland—City let contract paving portion 114th St. to BALDWIN BROS. CO.

Ohio, Dayton—City let contract improving portion Summit St. to G. HECKER, about $4,940.

Ohio, Defiance—(Official)—Defiance County let contract improving Evansport Rd. to TURRITAN & ERMAN, Evansport, $16,069, Sect. "A"; SPANGLER & ERMAN, Evanport, $8,334, Sect. "B."

Ohio, Hubbard—(Official)—Village let contract improving portion Mill St. to E. DIORIA, Youngstown. Noted Sept. 21.

Ohio, Niles—County let contract macadamizing Newton Falls Salt Springs Rd. to McDERMOTT & HANAN, Niles, $17,224.

Ohio, Port Clinton—(Official)—Village let contract paving portion Monroe St. and West Market Space to KIMELSPACH & THOMA, Fremont, about $8,736. Noted Sept. 21.

Ohio, Youngstown—Shenango Land Co. let contract 8,000-ft. paving to W. McINTYRE & SONS, Sharon, Penn.

Ind., Brookville—(Official)—Franklin County let contract road in Brookville Township to T. WILSON, Brookville, about $28,500. Noted Sept. 28.

Ind., Columbia City—(Official)—Whitley County let contract gravel road in Cleveland Township to E. E. LEHMER, North Manchester, about $11,156. Noted Sept. 28.

Ind., Corydon—(Official)—Harrison County let contract gravel or macadam roads in Webster, Blue River and Harrison Townships to PILLARS & TEMPLE, Depauw, about $6,320. Noted Sept. 28.

Ind., Elkhart—City let contract paving Sterling Ave. to NORTHERN CONSTRUCTION CO., about $11,250.

Ind., Frankfort—(Official)—Clinton County let contract gravel road in Forest Township to HARSHMAN & JARRELL, Frankfort, about $8,640. Noted Sept. 28.

Ind., Indianapolis—City let contract improving portion Broadway to INDIANA ASPHALT CO., at $4.88 per yd.

Ind., Laporte—(Official)—Laporte County let contract road in Lincoln Township to L. MARTINE, Laporte; Prairie Township to E. MARQUARDT. Noted Sept. 28.

Ind., Lawrenceburg—(Official)—Dearborn County let contract road in Lawrenceburg Township to R. H. BLACKMORE and F. LUDLOW, Lawrenceburg, about $42,000. Noted Sept. 28.

Ind., Logansport—(Official)—Cass County let contract road Clay Township to REIMENSCHNEIDER & ANSTIS, about $13,000. Noted Sept. 28.

Ind., Monticello—(Official)—White County let contract road in Union Township to O. E. SHAFER, Royal Center. Noted Sept. 28.

Ind., Rensselaer—(Official)—Jasper County let contract road in Gillam Township to O. SALEIR, Tefft, about $10,309. Noted Sept. 28.

Ind., Rochester—Fulton County let contract 6 mi. gravel road to D. B. CLEVENGER, Rochester, $17,500. Noted Sept. 7.

Ind., Shelbyville—(Official)—Shelby County let contract gravel road in Hanover Township to W. N. BASSETT, Morristown, about $9,975. Noted Sept. 28.

Ind., Vincennes—(Official)—Knox County let contract 11,200-ft. gravel road in Johnson Township and 15,840-ft. in Harrison Township to E. H BYERS, Monroe City, about $9,100. Noted Sept. 28.

Mich., Ecorse—City let contract paving portion Monroe St. to RICE CONSTRUCTION CO.

Ill., Chicago—Cook County let contract 4 mi. road in Lynn and Wheeling Townships to COMMONWEALTH IMPROVEMENT CO., Chicago, about $57,000.

Ill., Danville—F. A. Coughlin, Stock Exchange Bldg., Chicago, only bidder on 15,263 sq.yd. asphaltic concrete.

Ill., Elgin—(Official)—City let contract improving Bluff Blvd. and Dexter Ave. to McCARTHY IMPROVEMENT CO., Davenport, Iowa, $11,362 and $7,530, respectively.

Ill., Jacksonville—City let contract paving Prairie St. to STANDARD PAVING CO., 1101 South Cicero Ave., Chicago, about $27,410.

Ill., La Salle—City let contract paving portion Hennepin and 7th St. to T. W. KEYS, La Salle, about $28,000.

Ill., Rock Island—Moline Construction Co., at $2.05 per yd. low bidder paving 42d St. Noted Aug. 31.

Ill., Rock Island—City let contract paving portion 24th St. to McCARTHY CONSTRUCTION CO., $1.99 per sq.yd. Noted Aug. 31.

Wis., Elkhorn—Western Improvement Co., Racine, low bidder improving various streets, about $60,000.

Iowa, Burlington—City let contract grading Ballard and Huston St. to JULIUS POHREN.

Iowa, Council Bluffs—C. C. Norgaard & Son were only bidders for resurfacing Oakland Ave.

Iowa, Des Moines—City let contract paving rounding street in south part capital extension to DES MOINES ASPHALT PAVING CO., at $1.98½ per sq.yd.

Kan., Columbus—(Official)—City let contract 18,897 sq.yd. paving and 4,762 lin.ft. curb and gutter to WATTS & AMMERMAN, Salina, about $38,232. Noted Sept. 28.

Mont., Butte—City let contract improving portion Harrison Ave. Blvd. to B. HAGER, Belgrade.

Mont., Lewistown—City let contract paving to G. H. NASH, Missoula, about $40,000.

Mo., Chillicothe—City let contract paving Walnut St. to J. F. MEEK, Chillicothe.

Ark., Ft. Smith—City let contract 11,375 sq.yd. paving Dist. No. 2 to G. ELLEFSON.

Tex., Ft. Worth—City let contract paving portion Travis and Washington Ave. to GENERAL CONSTRUCTION CO., Ft. Worth. Noted Oct. 5.

Streets and Roads (Continued)

Tex., Houston—City let contract paving portions West, Gano, Chapman and Quitman St. to A. M. CHAMBERS CO., Houston, about $14,000.

Tex., Newton—Newton County let contract about 80 mi. road north and south through county to N. A. DAWSON, Newton.

Okla., Henryetta—City let contract paving streets in Impvt. Dist. No 1 to PARK-MORGAN CO., Okmulgee, about $74,591.

Okla., Tulsa—City let contract sidewalks to L. J. ROACH.

Wash., Aberdeen—(Official)—City let contract improving West Blvd. to STANDARD TRANSFER CO., Aberdeen, about $12,882. Noted Sept. 21.

Wash., Centralia—Lewis County let contract surfacing D St. Bridge Rd. to ALBERS & SON, about $4,300.

Wash., Pasco—Franklin County let contracts Permanent Highway Nos. 3 and 5 to PORTER & CONLEY, Portland, and TRIBO & CREBLING, Walla Walla, about $10,700 and $15,687 respectively. Noted Aug. 31.

Wash., Seattle—City rejected bids for paving Rainer and 47th Aves. A. H. Dimock, City Engr.

Ore., Portland—City let contract paving approaches to interstate bridge over Columbia River to WARREN CONSTRUCTION CO., $93,387.

Calif., Anaheim—City let contract 62,700 sq.ft. paving to LOS ANGELES PAVING CO., 2900 Santa Fe Ave., Los Angeles, $0.1199 per sq.ft.

Calif., Berkeley—City let contract curbing, guttering and paving Fulton St. to OAKLAND PAVING CO., 5,000 Broadway, Oakland.

Calif., Fairfield—(Official)—Solano County let contract graveling portion Rd. No. 21 to BEATTY & GATES, Vacaville, $1.89 per cu.yd. Noted Sept. 28.

Calif., Los Angeles—Los Angeles County let contract improving Wright-Tweedy Rd., Dist. No. 91, to R. H. McCRAY CO., 422 American Bank Bldg., $19,338. Noted Sept. 28.

Calif., Los Angeles—Los Angeles County let contract improvement work in Dist. No. 103 to E. A BAKER, Hellman Bldg., about $13,250. Noted Oct. 5.

Calif., Los Angeles—Los Angeles County received low bid Harbor Truck Blvd. from White & Gaskill, Long Beach, about $48,237. Noted June 22.

Calif., Los Angeles—Los Angeles County let contract improvement work in Dist No 102 to SOUTHERN CALIFORNIA CONTRACTING CO., Title Insurance Bldg., $20,425.

Calif., Oakland—City let contract improving portion College Ave. to FEDERAL CONSTRUCTION CO., Sharon Bldg., San Francisco. Noted Sept. 7.

Calif., Richmond—City let contract paving portion 15th St. to L. L. PAGE, about $10,721.

Calif., Sacramento—City let contract improving 31st St. to McGILLIVRAY CONSTRUCTION CO., Nicolaus Bldg.

Calif., San Anselmo—City let contract improving street in Upper Bush tract to WESTERN MOTOR DRAYING CO, 1444 Church St., San Francisco, $9,118. Noted Sept. 7.

Calif., Santa Barbara—City let contract paving portion Mission Ridge Rd. to PAUL & CALDWELL, Stockton, about $53,337. Noted Oct. 5.

N. B., Moncton—City let contract paving St. George St. to CARRITTE-PATTERSON CO., LTD., 89 Water St., St. John, about $25,000. Noted Aug. 31.

Que., Montreal—Council plans to spend about $250,000 for asphalt paving. Work to be done by day labor. P. Mercier, Engr.

Ont., Lindsay—Town let contract paving to STANDARD PAVING CO., LTD., Central Chambers, Ottawa.

Ont., Ottawa—(Official)—City to build sidewalks on Somerset St. by day labor. Noted Sept. 28.

Ont., Sault Ste. Marie—City let contract cement walks to A. R. WOOD, 136 Pilgrim St.

Ont., Toronto—City let contract asphalt paving to GODSON CONTRACTING CO., Manning Chambers, about $16,500.

Ont., Walkerville—(Official)—Council let contract 6,000 sq.yd. concrete paving to MERLO, MERLO & RAY, Walkerville. Noted Sept. 28.

Ont., Windsor—City let contract paving Moy and Erie St. to CHICK CONTRACTING CO., McDougall St., about $6,424.

INDUSTRIAL WORKS

Proposed Work

Maine, Auburn—T. A Huston Co., North Main St., making plans for 3-story addition to biscuit factory, about $10,000. Gibbs & Pulsifer, Journal Bldg., Lewiston, Arch.

Maine, Auburn—J. C. Woodrow, 25 Summer St., making plans for 5-story, 50x100-ft. warehouse. Coombs & Ash, Journal Bldg., Lewistown, Arch.

Mass., Boston—E. N. Foss, care of W. E. Locke, 34 Oliver St., making plans for 3- and 4-story, 60x300-ft. light manufacturing building, auto showrooms and offices. J. T. Ball, 39 Rosedale St., Dorchester, Arch.

Mass., Boston—A. Prentiss, 57 Prentiss St., Roxbury, making plans for 1-story sausage factory about $10,000. C. A. and F. N. Russell, 50½ Warren St., Arch.

Mass., Holyoke—Farr Alpaca Co. plan new building on Cabot and Bigelow St.

Mass., New Bedford—Passaic Cotton Mill Co., 120 Broadway, New York, plans mill at New Bedford. F. H. Smith, 120 Broadway, New York, Engr.

R. I., Providence—Monahan Vehicle Co., Eagle St. and Kinsley Ave., plans 2-story factory at Elmwood and Reservoir Ave.

N. Y., Albany—Woodward Co., 388 Broadway, plans 4-story warehouse, about $60,000. Fuller & Robinson, 95 State St., Arch.

N. Y., Buffalo—A. Shreiber Brewing Co., 662 Fillmore Ave., making plans for 2-story bottling works. About $20,000. W. H. Zawadski, 798 Fillmore Ave., Arch.

N. Y., New York—(Brooklyn)—Adrian Machine Works, Inc., 254 Van Brunt St., plans 6-story, rein.-con. machine shop. R. Irving Dodge, 233 Broadway, Arch.

N. Y., New York—(Brooklyn)—C. Katz, 392 Bushwick Ave., made plans for 2-story factory, about $10,000.

N. Y., New York—(Queens)—Gehnrich Indirect Heat Oven Co., Franklin Ave., Brooklyn, making plans for 4-story, 143x217-ft. factory, about $100,000. Francisco & Jacobus, 200 5th Ave., Manhattan, Arch.

N. Y., Saratoga Springs—State Reservation Comn. made plans for bottling plant, about $30,000. L F. Pilcher, Capitol, Albany, State Arch. Noted Oct. 21.

N. J., East Orange—Sprague Electric Co. plans rein.-con. addition to plant. About $425,000.

N. J., Hoboken—Hudson County Consumers Ice Co. plans 3-story brick plant at 16th and Park Ave. About $77,000.

N. J., Long Branch—Hazard Cascara Co., 75 Washington St. plans to rebuild plant.

Penn., New Castle—American High Explosive Co. plans plant. About $400,000.

Penn., New Castle—Standard Steel Car Co., Mahoning Ave, plans plant. About $300,000.

Penn., Philadelphia—J. J. Allen, 621 Gale Bldg., made plans for brick manufacturing plant, about $25,000.

Penn., Philadelphia—Peter Hecht Glass Works, 60 North 4th St., made plans for 1-story, 44x129-ft. storage shed. About $15,000.

Penn., Philadelphia—J. L. Heermann, 4136 Lancaster Ave, made plans for 2-story, 90x100-ft. bakery, about $25,000. C. R. Balderston, 411 Walnut St., Arch. Noted Sept. 28.

Penn., Philadelphia—Keystone Spinning Mills Co., 1631 North 2nd St., making plans for additions to plant.

Penn., Philadelphia—Wilson & Co., 139 Delaware Ave., making plans for 4-story, brick and rein.-con. packing house at 827 Callowhill St.

Penn., Pittsburgh—(Official)—D. L. Clark Co. making plans for 6-story, 27x65-ft. and 62x120-ft. additions to plant. About $125,000. P. Dietz, House Bldg., Pittsburgh, Engr.

Va., Alexandria—H. R. Morton, 3728 New Hampshire Ave., Washington, making plans for 3-story rendering plant and boiler room, about $30,000. O. Vogt, 405 Corcoran Bldg., Washington, Arch.

W. Va., Follansbee—Follansbee Bros. Co. plans steel plant, about $1,500 000.

W. Va., St. Albans—Roessler & Hasslacher Chemical Co., Perth Amboy, plans plant. About $1,000,000.

N. C., Charlotte—Chatham Manufacturing Co., Elkin, plans 4-story, 80x300-ft. mill.

N. C., Spencer—Southern Ry. plans shop. B. Herman, 1300 Pennsylvana Ave., Washington, D. C., Ch. Engr. M. W. and Struct.

Fla., Tampa—Tampa Foundry and Machine Co. plans shipyard plant. About $500,000. E. Kreher, Pres.

Ky., Mt. Sterling—G. O. Tuck & Co., Louisville, making plans for plant at Mt. Sterling. About $30,000.

Ohio, Akron—American Hard Rubber Co. plans 5 factory buildings. About $100,000.

Ohio, Cincinnati—Linde Air Products Co, 63 Plum St., plans plant at Stanton Ave. and Shillito St. About $50,000.

Ohio, Cincinnati—J. Milberg, 516 Poplar St., plans 2-story, 50x100-ft. packing plant. About $25,000.

Ohio, Cleveland—National Carbon Co., Madison Ave., N. W., and West 117th St., plans addition, about $50,000.

Ohio, Cleveland—City Ice Delivery Co., 908 New England Bldg., plans additions to plant. About $1,000,000.

Ohio, Cleveland—Ohio Blower Co., 5125 Perkins Ave., making plans for 4-story, 60x200-ft. brick and concrete plant. About $75,000. Osborn Engineering Co., 720 Engineers Bldg., Arch.

Ohio, Cleveland—Willard Storage Battery Co. made plans for 2 factory buildings, one 2-story, 135x200-ft. and other 1-story, 90x240-ft. About $100,000. T. A. Willard, East 131st St. and St. Clair Ave., Vice-Pres. and Gen. Mgr. Noted May 1

Ohio, Kenton—Kenton Grocery Co. plans 2-story warehouse.

Ohio, Lorain—Cromwell Steel Co. plans plant. J. C. Cromwell, Cleveland, interested.

Ohio, Marietta—Chamber of Commerce formed Industrial Co. and purchased large tract of land to be used for factory sites. First company to locate on tract will be known as Marietta Chain and Forging Co. and will construct large steel plant. B. F. Strecker and C. F. Sperry, interested.

Ohio, Massillon—National Press Co., recently incorporated, plans plant on Columbia Heights.

Ohio, Rosehill—(New Weston post office)—S. A. Swanson and associates, Massillon, plan wash gravel plant in Rosehill. About $50,000

Ohio, Salem—Buckeye Engine Co. plans 2-story, 120x380-ft. addition. E. S. Grivets, Cleveland, Pres.

Ind., Bicknell—Pennsylvania Lines West of Pittsburgh plans roundhouse and coal yards at Bicknell, about $150,000. T. Rodd, Pittsburgh, Ch. Engr.

Ind., Gary—Union Drawn Steel Co., 7th Ave. and 4th St., Beaver, Penn., plans plant at Gary.

Ind., Peru—Lake Erie & Western R.R. plans 15-stall roundhouse at Peru. J. K. Connor, Washington and Noble St., Indianapolis, Ch. Engr.

Mich., Detroit—J. E. Bolles Iron and Wire Works, 4th and Porter St., plans plant at Hastings St. and East Milwaukee Ave. J. B. Mansfield, Vice-Pres. and Gen. Mgr.

Mich., Detroit—Detroit Metallic Casket Co. plans 1-story brick factory and garage. About $25,000.

Mich., Detroit—Detroit United Railway Co. plans freight house at Monroe Ave., Chene, Dequindre and Macomb St. About $1,000,000. F. W. Brooks, Interurban Bldg., Detroit, Pres. and Gen. Mgr.

Mich., Manistique—F. W. Little and other capitalists of Minneapolis plans pulp and paper mill About $1,000,000.

Ill., Danville—Sugar Creek Creamery Co. making plans, for 2-story, 66x148-ft creamery. About $50,000. Liese & Ludwick, Dale Bldg., Arch.

Wis., Beloit—Esterline & Angus Co., Indianapolis, Ind., plans plant for manufacture of electrical fixtures. About $50,000.

Wis., West Allis—North Pacific Ry. plans plant. About $2,000,000. W. L. Darling, St. Paul, Minn., Ch. Engr.

Iowa, Dodge City—Droge Elevator Co. plans rein.-con. warehouse at 9th Ave. and 12th St. About $12,000.

Iowa, Ft. Madison—State Bd. Control, Capitol, Des Moines, making plans for 1-story, 70x100-ft. chair and furniture factory. H. F. Liebbe, Des Moines, State Arch.

Iowa, Waterloo—American Manufacturing Co. making plans for 4-story, 70x140-ft. factory. R. G. Ralston, Syndicate Bldg., Arch. D. Pederson, 613½ Jefferson St., Mgr.

Minn., Dover—Dover Creamery Association plans, about $10,000. C. Kampfer & Sons, 103 Bates Ave., St. Paul, Arch. H. Brown, Mgr.

Minn., Duluth—National Iron Works, 50th Ave., plans pattern warehouse. About $10,000.

Minn., Minneapolis—Daily News Co. plans 3-story printing plant, at 4th Ave., S., and 6th St. A. E. Flobeck, 2nd Ave. and 6th St., Mgr.

Minn., Minneapolis—A. O. Gerde, 112 East Lake St., making plans for commercial garage, about $20,000.

Minn., St. Paul—Electric Steel Co. plans factory. G. W. Harrison, 1011 Merchants Bank Bldg., and M. Toltz, Toltz Engineering Co., Pioneer Bldg., interested.

Minn., St. Paul—Megow Traction Co. plans tractor plant, about $100,000. Address E. J. Megow, 2138 Marshall Ave. Toltz Engineering Co., Pioneer Bldg., Arch and Engr.

Kan., Independence—Independent Paper Co. plans to improve and enlarge factory. Address C. J. Ellsworth, Independence.

Neb., Grand Island—Nebraska Mercantile Co. plans 4-story, 85x140-ft. building.

Neb., Lincoln—DeWitt Grain Co., 27th and Y St., making plans for 2-story warehouse. About $15,000.

Mont., Helena—City votes Nov. 7 on $265,000 bonds for factory at state prison. A. M. Alderson, Secy. of State.

Mont., Helena—New York & Montana Testing and Engineering Co. plans factory. About $30,000.

Mo., Kansas City—Aines Farm Dairy Co. soon receives bids for 3-story plant. Shepard, Farrar & Wiser, 1202 R. A. Long Bldg, Arch. L. A. Aines, 39th and Main St., Mgr. Noted Sept. 28.

Mo., St. Louis—Emil Sieloff Provision Co. plans cold-storage plant on Natural Bridge Ave.

Ark., Little Rock—E. L. Bruce Co., East 17th St., plans to rebuild plant. About $100,000.

Tex., Waco—R. C. Allen, Hearne, plans building at 8th St. to be leased by Hill Printing and Stationery Co.

Okla., Muskogee—Missouri, Kansas & Texas Ry. made preliminary plans for roundhouse, shops, etc., about $160,000. L. F. Lonnbladh, Dallas, Tex., Ch. Engr. Noted Mar. 30.

Utah, Salt Lake City—Browning Automobile and Supply Co., 55 West 4th St., plans salesroom

Industrial Works (Continued)

and storage and automobile shop building at Main and 6th St., S., about $100,000.

Utah, Salt Lake City—Provo Woolen Mills, Provo, purchased site at Salt Lake City for plant.

Wash., Seattle—Davidson Bakery Co. soon lets contract for 2-story brick and concrete bakery at 13th Ave. and East Columbus St. About $99,500. Bebb & Gould, Denny Bldg., Arch.

Wash., Spokane—International Cement Co. plans to rebuild plant.

Calif., Vallejo—Sperry Flour Mill Co. plans rein.-con. warehouse. About $150,000.

Calif., Oakland—Albers Milling Co. plans 80 concrete grain tanks and concrete molasses vat.

Calif., Oakland—Moran Meat Packing Co., San Francisco, plans packing plant at Oakland. About $300,000. F. Whitton, Mgr.

Ont., Niagara Falls—Perfection Tire and Motor Co., 713 Marquette Bldg., Chicago, plans factory. About $50,000.

B. C., Lulu Island—Pacific Steel Products Co., Ltd., plans to rebuild plant destroyed by fire.

Bids In and Contracts Awarded

N. H., Manchester—Standard Oil Co., 26 Broadway, New York, let contract 2-story warehouse to H. D. BEST & CO., 52 Vanderbilt St., New York.

N. H., Nashua—Improved Paper Machinery Co. let contract 3-story machine shop to C. W. KELTH, Milford.

N. H., Nashua—Nashua Card Gummed and Coated Paper Co., 44 Franklin St., let contract 3-story storehouse to OSGOOD CONSTRUCTION CO., 25 East Hollis St.

N. H., Somersworth—Great Falls Woolen Co. let contract addition to dye house and woolen mill to J. MATHEWS, Berwick, Maine, about $25,000. Noted Sept. 7.

Mass., Brighton—Brighton Laundry Co. let contract 2-story laundry, Union and Snow St., to F. J. VAN ETTEN, 53 Mapleton St., Brighton, about $20,000.

Mass., Boston—New York, New Haven & Hartford R.R. let contract addition to roundhouse to H. L. HEMENWAY CO., 88 Broad St. Noted Sept. 14.

Mass., Brockton—Bay State Metal Corporation let contract factory to G. HOWARD & SONS, 633 Warren Ave., Brockton, about $30,000.

Mass., Cambridge—Morey & Co., 111 Devonshire St., Boston, let contract 5-story, 49x95-ft. plant to R. H. HOWES CONSTRUCTION CO., 10 Post Office Sq., Boston. About $50,000. Noted Aug. 31.

Mass., Everett—Everett Factories Corp., 210 Broadway, let contract 4-story factory to B. F. SMITH CO., 136 Federal St., Boston, about $60,000.

Mass., Lowell—Merrimack Manufacturing Co. let contract manufacturing building to B. H. WIGGIN CO., 150 Market St., about $10,000.

Mass., Somerville—New England Blacking Co., Inc., 24 Binford St., let contract 1-story factory to WALSH BROS., 150 Hampshire St., Cambridge.

Mass., Springfield—Bay State Thread Co. let contract 4-story addition to factory to E. F. CARLSON CO., 310 Main St.

R. I., Pawtucket—Tamarack Co. let contract 2-story, 80x200-ft. factory to F. T. LEY & CO., Springfield, Mass.

Conn., Middletown—Meech & Stoddard, Inc., 340 Main St., let contract 2-story, 55x200-ft. warehouse to S. MAZZOTTA. Noted Sept. 21.

Conn., New Britain—Barnes & Kobert Co. let contract 1-story, 60x200-ft. factory to B. H. HIBBARD CO.

Conn., Stonington—Atwood Machine Co. let contract 3-story addition to H. R. DOUGLAS, INC., New London, about $40,000.

N. Y., Cobleskill—Schoharie State School of Agriculture let contract dairy and horse barn to E. JOHNSON, Catskill, about $12,000. Noted Aug. 10.

N. Y., Newark—J. Hensler Brewing Co. let contract addition to bottling plant and stable to ESTATE OF H. WOLF, 318 Elm St., about $15,000.

N. Y., New York—(Manhattan)—J. S. Burns & Sons, 600 West 43d St., let contract 6-story, 100x125-ft. rein.-con. factory to W. L. CROW CONSTRUCTION CO., 103 Park Ave., about $60,000. Noted Sept. 14.

N. Y., New York—(Manhattan)—Dept. Pub. Charities, Municipal Bldg., let contract 9-story storage building on Blackwells Island to BENEDETTO, CLARK & NUGENT, INC., 423 East 115th St. About $400,000. Noted Sept. 14.

N. Y., Rochester—L. Gibaud, 352 Main St., E., let contract auto sales room to GORSLINE & SWAN CONSTRUCTION CO., 243 Powers Bldg., about $22,500.

N. J., Atlantic City—S. Leopold, 1825 Atlantic Ave., let contract 4-story warehouse to S. DELINSKY, 105 North Mass Ave. About $20,000.

N. J., Bridgeton—W. Venezky let contract 3-story cold-storage plant and market on Pearl St. to H H. HANKINS & BROS.

N. J., Jersey City—(Official)—Hudson Laundry Co. let contract, 1-story, 200x210-ft. laundry at Johnson Ave., Grand and Bishop St. to McDERMOTT & HANNIGAN, INC., 103 Park Ave., New York. About $60,000. Noted Sept. 28.

N. J., Jersey City—C. A. Woolsey Paint and Color Co., 500 Grand St., let contract addition to factory to WRIGHT & KOWALSKI, 667 Grove St.

N. J., Kearny—(Arlington post office)—White Tar Co. of New Jersey let contract chemical factory of T. L. MacBEAN, Kearny, about $50,000.

N. J., North Bergen—H. Goldberg, 314 Angelique St., West Hoboken, to build 2-story brick factory at North Bergen by day labor. About $10,000. Noted Sept. 7.

N. J., Seaside Heights—Barnegat Ice Manufacturing Co. let contract ice-storage house to H. VOIGHT, 1251 North 123d St., Philadelphia, about $15,000.

Penn., Greensburg—Armour & Co. let contract 2-story packing plant to C. W. SHUEY, Greensburg. About $10,000.

Penn., Hazleton—Lewis, Reesel Co. let contract additions to silk mill to HOGG CONSTRUCTION CO., 1634 SANSOM ST., Philadelphia, about $85,000.

Penn., Lebanon—Lebanon Iron and Steel Co. let contract 61x200-ft. rolling mill to J. K. PETTY, Lebanon.

Penn., Philadelphia—Philadelphia Paper Co. let contract addition to paper mill to MONAGHAN & LOSSEE, 3016 Chestnut St., about $12,000.

Penn., Philadelphia—Walker & Davis, machinists, let contract 1-story factory to F. A. HAVENS & CO., 845 North 19th St., about $10,000.

Penn., Pittsburgh—Pennsylvania R.R. let contract 1-story, 25x200-ft. warehouse to W. F. TRIMBLE & SON, 1719 Pennsylvania Ave., N. S. About $16,000. Noted June 15.

Penn., Reading—E. Kirk, 1911 Market St., let contract garage to S. HARDICAN, 1601 Cherry St., about $25,000.

Penn., Scranton—Capouse Warehouse Co. let contract 2-story, 58x104-ft. warehouse to E. S. WILLIAMS, Coal Exchange Bldg. About $18,000.

Penn., Sharon—Fruit Ohl Co. let contract 2-story, 75x106-ft. warehouse to TROUTMAN & CHRISMAN. About $15,000.

Md., Baltimore—Greenwald Packing Co. let contract tank house at Union Abattoir to CONSOLIDATED ENGINEERING CO. About $15,000.

Md., Baltimore—Standard Guano Co. let contract acid plant to CHEMICAL CONSTRUCTION CO., Charlotte, N. C., about $100,000. Noted July 13.

Ga., Americus—Flint River Cotton Mills let contract 3-story addition to V. C. PARKER & SON, about $27,000.

Ala., Birmingham—Linde Air Products Co., 42nd St. Bldg., New York, let contract plant at 10th Ave. and 28th St., to HETTRICK CONSTRUCTION CO., Dallas, about $50,000. Noted July 13.

Tenn., Memphis—Union Ry. let contract coaling plant to ROBERTS & SCHAEFER CO., Chicago.

Ohio, Cleveland—Arco Co. let contract factory to RENAGH CONSTRUCTION CO., 2835 East 51st St., about $11,000. Noted Sept. 28.

Ohio, Cleveland—Chandler Motor Car Co., 131st St. and St. Clair St., let contract brick and concrete building to CROWELL-LUNDOFF-LITTLE CO., 1951 East 57th St. About $175,000. Noted July 20.

Ohio, Cleveland—Peerless Motor Car Co., Quincy Ave. and East 93rd St., let contract plant to MASTERS & MULLEN CONSTRUCTION CO., 601 Electric Bldg. About $125,000. Noted Sept. 28.

Ohio, Cleveland—Sanitary Tinning Co. let contract 1- and 2-story factory at East 92d St. and Way Ave. to G. MURTON & SONS, 8802 Force Ave., about $50,000. Noted Sept. 7.

Ohio, Newark—P. Vogelmeier, 126 East Main St., let contract 3-story, 50x120-ft. storage building to MERCER BROS., 28 South 2d St. About $12,000.

Ind., Indianapolis—Metal Auto Parts Co. let contract 1-story plant to W. H. ISGRIGG & SON, 116 South Franklin St., Greensburg.

Mich., Grand Rapids—Grand Rapids Blow Pipe and Dust Arrester Co. let contract 2-story, 50x200-ft. factory to J. E. GULLIFORD CO., 430 Henry Ave., S. E. Noted May 11.

Mich., Muskegon—Campbell Manufacturing and Foundry Co. let contract factory on Western Ave. to INDIANA BRIDGE CO., Macedonia Ave. and East 12th St., Muncie, about $25,000. Noted Sept. 28.

Ill., Chicago—Columbia Mills Co. let contract 2-story concrete factory on 121st St. to PLEAS CONCRETE CONSTRUCTION CO., 30 North La Salle St. About $21,300.

Ill., Chicago—R. H. Comey Co., 2440 Washburn Ave., let general contract 3-story factory to A. E. BJORKE, 3804 Forest Ave., about $10,000.

Ill., Chicago—Mrs. E. Oliver let contract altering factory to W. J. ANGUS, 3127 Shields Ave., about $10,000.

Ill., Chicago—A. Stein & Co., 1149 West Congress St., let general contract 5-story addition to factory to BULLEY & ANDREWS, 25 North Dearborn St., about $70,000.

Ill., Chicago—Thomas Elevator Co. let contract storage building to A. G. LUND, 19 South La Salle St. About $10,000.

Ill., Dupo—St. Louis, Iron Mountain & Southern Ry. let contract coaling plant to ROBERTS & SCHAEFER CO., Chicago.

Ill., Marion—Valier & Spies Milling Co., 913 Pierce Bldg., St. Louis, Mo., let contract warehouse to PRIDE BROS., 804 North Monroe St., Marion.

Wis., La Crosse—D. S. Law, 5th and State St., let contract garage and office building to E. R. SCHWALBE & SONS, 1524 Madison St., about $30,000.

Iowa, Ames—Abattoir—State College of Agriculture and Mechanic Arts will build by day labor. About $50,000. Noted July 13.

Iowa, Cedar Falls—Wagner Manufacturing Co., 122 West 1st St., let contract 3-story, 30x73-ft. warehouse to G. L. SMITH, 1115 South St., Waterloo. Noted Sept. 14.

Iowa, Davenport—M. L. Iles and W. R. Weir let contract garage to J. E. NEBERGALL, about $25,000.

Minn., Minneapolis—L. H. Fawkes, 1625 Hennepin Ave., let contract auto salesroom to J. L. ROBINSON, 511 South 7th St., about $55,000.

Mo., Mexico—A. P. Green Fire Brick Co. will build additions to plant by day labor. About $20,000. Noted Mar. 2.

Mo., St. Louis—Paris Medicine Co. let contract 3-story factory to J. H. BRIGHT, 706 Chestnut St., about $35,000.

Tex., Ft. Worth—Ft. Worth Elevators Co. let contract addition to grain elevator to SOUTHWESTERN ENGINEERING CO., Springfield, Mo., about $85,000. Noted Mar. 9.

Tex., Hereford—E. W. Harrison let contract grain elevator to WHITE STAR CO., Wichita, Kan., about $10,000.

Idaho, Cottonwood—Cottonwood Milling and Elevator Co. let contract mill and grain elevator to BURRELL ENGINEERING AND CONSTRUCTION CO., 323 South La Salle St., Chicago. About $25,000. Noted Aug. 17.

Idaho, Shelley—Utah-Idaho Sugar Co. let contract factory to DYER CONSTRUCTION CO., Cleveland.

Nev., East Ely—Nevada Northern Railway Co. let contract coaling plant to ROBERTS & SCHAEFER CO., Chicago.

Wash., Waterville—Waterville Auto Co. let contract 1-story garage to GEORGE GROSHOFF, 1604 Main Ave., Spokane, about $30,000.

Que., Westmount—Arena Co., 4095 St. Catharine St., W., let contract ice-storage plant to W. M. IRVING, 26 Stanley St., Montreal, and FRICK ICE REFRIGERATING CO., 357 St. Catherine St. About $50,000.

Ont., Ft. William—Canada Starch Co., 164 St. James St., Montreal, let contract rein.-con. factory at Ft. William to THUNDER BAY CONSTRUCTION CO., Whalen Bldg., Port Arthur. About $60,000.

Ont., Hamilton—Dominion Steel Castings Co., Depew St., let contract to MACKAY & PAULIN, Bank of Hamilton Bldg., about $75,000.

Ont., Merritton—Lincoln Paper Mills let contract brick and concrete addition to PURDY, HENDERSON & CO., 1608 Danforth Ave., Toronto. About $200,000. Noted Aug. 24.

Ont., Toronto—R. Simpson Co. let contract rein.-con. factory to WELLS BROS., 96 Gould St. About $100,000.

FEDERAL GOVERNMENT WORK

Proposed Work

Mass., Chelsea—Seawall—Bureau of Yards and Docks, Navy Dept., Washington, making plans about $14,700. F. R. Harris, Ch.

R. I., Newport—Sea Wall—Bureau of Yards and Docks, Navy Dept., Washington, D. C., making plans, Naval Torpedo Station. About $35,000 available. F. R. Harris, Ch.

Conn., New London—Dredging—U. S. Engineer Office, New London, receiving bids Oct. 26, Pawtucket River, R. I., and Conn. (See adv.)

Conn., Rockville—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Nov. 21.

Penn., Media—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Nov. 14.

Penn., Philadelphia — Dredging, Etc. — U. S. Engr. Office, Philadelphia, receiving bids Nov. 9 for dredging and rock excavation in Delaware River, Philadelphia Harbor. (See adv.)

D. C., Washington—Battle Cruisers—Navy Dept. receiving bids Dec. 6 for 4 battle cruisers. W. S. Benson, Act. Secy. Navy. (See adv.)

D. C., Washington—Bridge—Dist. Comrs. receiving bids Nov. 2 for 7 span steel plate girder highway bridge on Banning Rd. over Philadelphia, Baltimore & Washington and Baltimore & Ohio Railroad Co. O. P. Newman, Comr. (See adv.)

D. C., Washington—Grading Streets—Dist. Comrs. receiving bids Oct. 24 for grading certain streets, about 107,000 cu.yd. O. P. Newman, Comr. (See adv.)

D. C., Washington—Inspection of Materials and Machinery—U. S. Rec. Ser. receiving bids Oct. 30 for inspection of materials and machinery for a period of 3 years A. P. Davis, Ch. Engr. (See adv.)

Federal Government Work (Continued)

D. C., Washington—Wall—Bd. Comrs., Room 509 Dist. Bldg., receiving bids Oct. 31 for portion of wall on Canal Rd., between Aqueduct Bridge and Foundry Branch. (See adv.)

W. Va., Wheeling—Lock Gates—U. S. Engr. Office, Wheeling, receiving bids Oct. 30 for lock gates at Dam No. 22, Ohio River. (See adv.)

Va., Norfolk—Buildings—Bureau of Yards and Docks, Navy Dept., Washington, making plans for student officers' quarters, Navy Yard. Appropriation of $20,000 made. F. R. Harris, Ch.

Fla., Key West—Buildings—Bureau of Yards and Docks, Navy Dept., Washington, receiving bids Oct. 28 radio buildings, masts, sewer, water and lighting systems. F. R. Harris, Ch. Noted Aug. 17.

Ky., Louisville—Lock Gates—U. S. Engineer Office receiving bids Nov. 6 for upper and lower mitering lock gates for Lock No. 41, Ohio River. (See adv.)

Ohio, Columbus—Post Office—Treasury Dept., Office Act. Superv. Arch., making plans. About $750,000. J. A. Wetmore, Washington, Act. Superv. Arch. Noted June 15.

Mo., St. Louis—Levee Work—Mississippi River Comn., 1311 International Life Bldg., receiving bids Oct. 30 about 40,000 cu.yd. earth work in East Side Levee and Sanitary Dist., Ill.

Wash., Wenatchee—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Nov. 10. (See adv.)

Calif., San Diego—Crane—Bureau of Yards and Docks, Navy Dept., Washington, making plans, about $10,000. F. R. Harris, Ch.

Calif., Tiburon—Dredging—Bureau of Yards and Docks, Navy Dept., Washington, making plans, about $12,000. F. R. Harris, Ch.

Bids In and Contracts Awarded

Maine, Skowhegan—Post Office—Bids received Oct. 6 (a) limestone, (b) sandstone, from W. H. Fissell & Co., New York, (a) $57,650, (b) $58,650; Forgione & Romano Co., Portland, Maine, (a) $62,000. Noted Sept. 7.

N. H., Berlin—Post Office—Low bidders, (a) limestone, (b) sandstone, were: Newport Engineering and Contracting Co., Newport News, R. I., (a) $67,000; W. H. Fissell & Co., New York, (a) $69,000, (b) $70,500; J. Miles & Son Co., Worcester, (a) $69,700, (b) $70,900. Noted Sept. 7.

Mass., Buzzards Bay—Removal of Wreck—Bids received Oct. 2 for removal of wreck "Yankee" in Buzzards Bay from Merritt & Chapman Derrick and Wrecking Co., 17 Battery Pl., New York, $11,890; E. Boehm, 23 North Florida Ave., Atlantic City, $24,872; C. W. Johnston, Lewes, Del., $26,500. Noted Sept. 7.

Mass., Ft. Warren—Road—Quartermaster, Ft. Warren, rejected bids received Sept. 21. Noted Sept. 7.

Conn., New London—Dredging—Contract dredging Duck Island Harbor let to J. S. PACKARD DREDGING CO., Providence, $36,960. Noted Oct. 5.

Penn., Philadelphia—Steel, etc.—U. S. Marine Corps, Quartermaster's Dept., Depot of Supplies, 1100 South Broad St., let contract to R. M. BAILEY CO., Commercial Trust Bldg., at 3.6c. for 62,900 lb. steel and 3.7c. for 1,000 lb. Noted Aug. 24.

D. C., Washington—Steel Fence—Low bidders steel fencing and gates for St. Elizabeth's Hospital (a) 5,630 lin.ft. fencing with channel iron rails; (b) 5,630 lin.ft. fencing with angle-iron rails; (c) 4 double gates and 7 single gates, were: F. S. Gichner, Washington, (a) $11,000; Stewart Iron Works, Cincinnati, (b) $9,852; C. A. Snyder's Sons, Washington, (c) $343. Noted Sept. 21.

Va., Arlington—Road Work—Bids received for repairing roadway east of Arlington National Cemetery from L. M. Johnston, Arlington, and R. E. Boiseau.

Va., Norfolk — Structural Shop — Bureau of Yards and Docks let contract to G. E. WYNE, Munsey Bldg., Washington, about $651,643. Noted Sept. 28.

Va., Rosslyn—Crane—Dept. Agriculture received bids electric carrying crane in building at Arlington Farm near Rosslyn from Whiting Foundry Equipment Co., Harvey, Ill., $6,575; Manning, Maxwell & Moore, New York City, $7,531; S. T. Williams, Baltimore, Md., $7,559. Noted Sept. 14.

Va., Warrenton—Post Office—Contract let to R. V. RICHARDSON, Hampton, $43,270. Noted Sept. 28.

W. Va., Huntington—Post Office—Low bidders were: J. Devault, Canton, Ohio, $155,000; R. P. Farnsworth, Owensboro, Ky., $161,390; V. E. Taylor, Huntington, $156,500. Noted Aug. 31.

S. C., Charleston—Dredging—Bureau of Yards and Docks, Navy Dept., Washington, received low bids, Oct. 7, Cooper River, from L. T. Gaylord, New York, $12.97 cu.yd.; R. A. Perry, Oakland, Calif., $13.44 cu.yd.; P. Sanford Ross, Jersey City, N. J., $13.47 cu.yd. Noted Sept. 14.

Miss., Greenville — Levee Work — Mississippi River Comn. let contracts to R. L. LEONARD and BOND, BURT & McMURRAY.

La., New Orleans—Rock—Contract 52,000 tons rock let to L. F. ALEXANDER, New Orleans, about $36,650. Noted Oct. 5.

Ohio, Ashland—Post Office—Contract let to WESTCHESTER ENGINEERING CO., White Plains, about $91,230. Noted Sept. 7.

Ill., Chicago—Timber Crib Breakwater—Contract let to GREAT LAKES DREDGE AND DOCK CO., Chicago, $53,861. Noted Sept. 7.

Ill., East St. Louis—Levee Work—Contract East Side Levee and Sanitary Dist. let to WILLS & SONS, St. Louis, about $200,000.

Mont., Malta—Reclamation—Bids received Sept. 27 for structures on Milk River Project from Booth & Knipe, Saco, $28,384, and C. M. McCaughlin, Malta, $31,017. Noted Aug. 31.

Colo., Denver—Mail Handling Devices—Bids received Oct. 2, post office at Denver, from A. Ferguson Co., Cincinnati, $7,700; Lamson Co., Boston, Mass., $8,448; Standard Store Service Co., Plantsville, Conn., $11,222. Noted Aug. 17.

Calif., Willows—Post Office—Bids received Oct. 2 from Welsh Bros. & Hannaman, Kalispell, Mont., $77,987; Caldwell & Son, San Francisco, $72,790; Campbell Building Co., Salt Lake City, $72,500. Noted Aug. 24.

CANALS, DITCHES AND IRRIGATION

Proposed Work

Penn., Philadelphia—Dredging—City made plans to dredge creeks in 40th ward. E. Albright, City Engr.

Ky., Hawesville—Ditch—Bd. Drainage Comrs. receives bids about Nov. 27 for Big Blackford Drainage Ditch.

Ind., Columbia City—Ditch—Whitley County receiving bids Oct. 18 for Francis Guy et al. Ditch. J. E. Plummer, Comr. of Constr.

Ind., Columbia City—(Official)—Ditch—Whitley County receiving bids Oct. 18 for draining John Eve et al and Corwin M. Marrs et al ditches. J. E. Plummer, Columbia City, Supt. Constr.

Ill., Arlington Heights—Drainage—Palestine Drainage Dist. receives bids about Nov. 1, about $75,000. Ewing & Allen, 111 West Monroe St., Chicago, Engr.

Wis., Oshkosh—Drainage—Winnebago County plans to improve Waukau Drainage Dist. About $34,000. Address County Clk., Oshkosh.

Wis., Racine—Drainage—Hoods Creek Drainage Dist. making preliminary surveys for draining about 14 acres. P. J. Hurtgen, Burlington, Engr.

Minn., Duluth — Drainage — Ditch—St. Louis County soon receives bids for County Ditch No. 6. Address County Engr., Duluth. Noted June 22.

Minn., Mankato—Drainage—City plans to drain Swan Lake. About $40,000.

Kan., Kansas City—Drainage—Kaw Valley Drainage Bd. rejected bids received Sept. 25 for 6,650 ft. levee work requiring about 43,000 cu.yd. embankment. New bids will be received. P. J. Broll, 719 Osage Ave., Secy. Noted Sept. 21.

Kan., Westmoreland — Channel — Bd. Dir. of Bellevue Drainage Dist. receiving bids Oct. 14 for changing channel of Vermillion River and 2 tributaries. F. G. Hooper, Secy. Bd. Dir. Noted Jan. 27.

S. D., Sioux Falls—Ditch—Minnehaha County soon receives bids for drainage ditch. About $30,000.

N. D., Verona—La Moure County plans drainage system in Verona, about $20,000. F. Bass, 244 Plymouth Bldg., Minneapolis, Minn., Engr.

Okla., Sallisaw—Drainage—Sequohyah County Drainage Dist. No. 1 made plans for canal, 12 mi. Winters & Dove, Ft. Smith, Arch., Engr. Noted June 22.

Wash., Raymond—Dredging—City estimates cost of dredging river channel at $134,330. A. Henry, City Engr.

Ore., Salem—Irrigation—Ochoco Irrigation Dist. soon votes on $1,000,000 for irrigating, 23,400 acres. R. W. Rea, Ch. Engr.

Calif., Oakdale—Widening Canals—Bd. Dir. Oakdale Irrigation Dist. soon receives bids for widening canals at Two-Mile Bar. About $10,000.

Calif., Susanville—Irrigation—Lassen County plans 2 irrigation districts, one near Janesville, comprising 7,000 acres and other in Long Valley, 35,000 acres.

Bids In and Contracts Awarded

Tenn., Alamo — Drainage — Contract drainage system in Crockett County let to N. C. McGINNIS & CO., Memphis.

Ohio, Bucyrus—Ditch—Crawford County let contract open ditch and retaining wall, Chatfield Township, to BAUM & ANKENY, Sycamore.

Iowa, Clarion—Drainage—Contract Joint Drain No. 5-129, Wright County let to BELMOND CEMENT CO., $29,674 for tile and to HAKE & LOBDELL, Belmond, $10,989 for labor.

Iowa, Mason City—Ditch—Contract Drainage Ditch No. 48 let to LOFTUS OBY, Mason City, $6,038 for labor and to NATURAL CLAY WORKS, Mason City, $9,440.

Iowa, Nevada—Ditch—Contract Drain No. 70 let to C. HAUGSTED, Germania, $18,220.

Iowa, Onawa—Drainage—Monona County let contract $790,000 cu.yd. excavation in Soldier River Drainage Ditch to S. O. BRIGGS CO., Omaha, Neb., 67,880. Noted May 25.

Iowa, Sioux City—Ditch—Woodbury County let contract Farmers' Ditch, Drainage Dist. No. 1 to H. B. WHITNEY, Emmetsburg. Noted Aug. 24.

Minn., Madison—Ditch—Contract County Ditch No. 32 let to L. G. LARSON, Dawson, $5,200.

Minn., Mankato—Ditch—Blue Earth County let contract Ditch No. 9 to NORTH STAR CONCRETE CO., Mankato, $42,800. Noted Dec. 30.

Minn., Mankato—Ditch—Blue Earth County let contract Ditch No. 46 to A. HENDRICKSON, Askor, $7,240.

Minn., Slayton—Ditch—Contract Judicial Ditch No. 18 let to TRACY CONSTRUCTION CO., Tracy.

N. D., Lisbon—Ditch—Ransom County let contract to O. LARSON, Milnor.

Ark., Marion—Drainage—Comrs. Drainage Dist. No. 8 let contract 1,000,000 yd. dipper dredge work, 350,000 yd. dragline and 40 mi. ditches to CANAL CONSTRUCTION CO., Exchange Bldg., Memphis, Tenn., $113,000. Noted Sept. 14.

Tex., Anahuac—Irrigation Improvements—Bd. Dir. Trinity Irrigation Dist. receiving bids Oct. 16 for repairing bulkhead across Smith Bay, locks, dams, etc. T. S. Ells, Secy. Noted Jan. 20.

Utah, Corinne — Drainage — Contract Corinne Drainage Dist. in Box Elder Co. let to CORINNE CONCRETE TILE CO., Corinne. About $175,000 now available for work. W. M. Bostaph, Salt Lake City, Engr.

Calif., College City—Drainage—Contracts drainage work in Dist. 108 let to W. T. WILKINS & SON, College City, A. KALLSBECK and T. WOODWARD, Knights Landing.

Calif., Grimes—Reclamation—Contract reclamation work along waterfront let to J. M. and J. W. PEART, College City. About $6,000.

Calif., Santa Ana—(Official)—Drainage—Newport Protection Dist. and Talbert Drainage Dist. will build drainage ditch, 4 mi., by day labor. S. H. Finley, Engr. Noted Sept. 21.

MISCELLANEOUS

Proposed Work

R. I., East Providence—Wharf—Philadelphia Paper Mills plans addition.

Conn., Litchfield — (Official)—Tunnel—Wanted to sublet about 1,500 ft. of rock tunnel. Address W. T. Ryan Construction Co., 129 Barker St., Hartford, Conn. (See adv. Oct. 5 issue.)

N. Y., Farmingdale—(Official)—Farm Buildings—W. W. Mills, Secy. Bd. Trustees, State School of Agriculture, receiving bids Oct. 18 for chicken and hog houses at Farmingdale. (See adv.)

N. Y., New York—(Bronx)—Filling—Park Bd., Municipal Bldg., Manhattan, receiving bids Oct. 19 for filling swamp lands, southerly portion Van Cortlandt Park. Noted Sept. 14.

N. Y., New York—(Boroughs of Bronx and Queens)—Signal Towers—Pub. Ser. Comn. for First Dist., 120 Broadway, Manhattan, receiving bids Oct. 23 for 13 signal towers on River Rd. Ave. and Jerome Ave. extension of Seventh Ave.-Lexington Ave. line, White Plains Rd. line and Queensboro Subway.

N. Y., New York—(Brooklyn)—Playground—Borough plans, Montrose, Johnson and Union Ave. and Lorimer St. L. H. Pounds, Borough Pres. G. W. Tillson, Consult. Engr. Bd. Pub. Wks.

N. Y., New York—(Manhattan)—Coal Railway—Dept. Pub. Charities, 10th floor, Municipal Bldg., receiving bids Oct. 17 for automatic coal railway and trestle at power house, Metropolitan Hospital, Blackwells Island.

N. Y., New York—(Manhattan)—(Official)—State Arsenal Improvements—Armory Bd., 158 State St., Albany, receiving bids Oct. 17 for relocation of metal fence and construction of concrete sidewalks in place of flagging at State Arsenal, 7th Ave. F. W. Ward, Albany, Secy. Bd. (See adv.)

N. Y., New York—(Queens)—Mausoleum—Estate of H. Heide, 84 Vandam St., Manhattan, plans, Calvary Cemetery, about $20,000. Maynicke & Franke, 25 East 26th St., Manhattan, Arch., soon receive bids.

N. Y., New York—(Queens)—Park H. Adams, Jr. F. J. Heaney and T. J. McBride plan park in Edgemere section of Long Island.

N. Y., Syracuse—Park and Playground Improvements—Park Comn. asked Mayor for $142,000 bond issue.

N. J., Bayonne—Terminal—City Com. submitted plans to Bd. Commerce and Navigation for terminal which includes (a) wharf and reclamation of 228 acres, about $3,000,000, (b) dock and reclamation of 258 acres, about $6,867,000, (c) additional wharf and dock and reclamation of 287 acres, about $8,300,000. W. L. Clarkson, City Engr.

N. J., Longport—Seawall—City soon receives bids, concrete, 1 mi. long, about $275,000. A. Gilmore, Clk. Case Construction Protection Corp., 1170 Broadway, New York, Engr. Noted Sept. 7.

N. J., Moorestown—Fire House—Moorestown Hose Co. No. 1 making plans, 2-story. About $7,000.

Penn., Coatesville—Fire House—West End Fire Co. made plans, 2-story. Kerns & Carroll, Arch. Noted Aug. 10.

Penn., Erie—Dock—Pennsylvania R.R. plans. About $200,000. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Penn., Oil City—Elimination of Grade Crossing—Pennsylvania R.R., Allegheny Division, plans to eliminate grade crossing at Oil City. Election

Miscellaneous (Continued)

soon to be held to vote on $2,000,000 bonds. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Penn., Philadelphia—Market—Wilson & Co. making preliminary plans, 837 Callowhill St. About $30,000. C. T. Barnett, Arch.

Penn., Philadelphia—(Official)—Subway—Dept. City Transit receiving bids Nov. 2 for section of Broad St. Subway, Contract No. 102. W. S. Twining, Dir. (See adv.)

Penn., South Fork—Tunnel—Rockville Coal and Lime Co. granted permission for tunnel under Lake St.

Ohio, Akron—Amusement Park—Summit Beach Park Co. plans, Summit Lake. J. A. Rampanelli, interested.

Ohio, Cleveland—Elimination Grade Crossing—City will issue $600,000 bonds for share of Pennsylvania Lines West of Pittsburgh grade elimination between Cedar and Holton St. R. Hoffman, City Engr. T. Rodd, Pennsylvania Station, Pittsburgh, Ch. Engr., Pennsylvania Lines West of Pittsburgh. Noted July 13.

Ohio, Cleveland — Fire Station — City plans, Carnegie Ave. J. E. Granger, Fire Chief.

Ohio, Cleveland — Park Improvements — Park Comrs. plan, Gordon Park.

Ohio, Columbus—Comfort Stations—State Bd. of Pub. Bldgs. receiving bids Oct. 17 for 2 comfort stations. F. W. Elliott, Chamber of Commerce Bldg., Arch.

Ohio, Greenville—Mausoleum—Ohio Mausoleum Co., Galion, soon receives bids, about $15,000.

Ohio, Massillon—Retaining Wall—City plans, North Mill St. from Lake St. to corporation lines.

Ohio, Norwalk—Retaining Wall—Bd. Comrs. Huron County receiving bids Oct. 17 for retaining wall on Old State Rd. No. 52. C. E. Bloomer, Clk. Bd. County Comrs.

Ohio, Warren — Straightening and Dredging River—City plans, Mahoning River. About $20,000. H. S. McKibben, City Engr.

Ind., Gary—Fire Station—City plans, Buchanan St. W. Grant, Ch. Fire Dept.

Ind., Lakeside—(Pulaski post office)—Retaining Wall—City plans, from north line of Lake Ave. to Columbia St. bridge.

Ill., Cherry Valley—Dam—City plans, Kishwaukee River. A. R. Carter, Supt. of Highways.

Ill., Chicago—Platform—Northwestern Elevated R.R., plans, 4526 Broadway. About $30,000. C. M. Mock, 1247 Edison Bldg., Chicago, Ch. Engr. A. Y. Gerber, Arch.

Ill., Mooseheart—Fire House—Loyal Order of Moose making plans, about $8,500. M. P. Adams, Gen. Supt.

Wis., Milwaukee—Market—City plans. About $68,000. G. Stall, City Engr.

Wis., Portage—Subways—Chicago, Milwaukee & St. Paul Ry. made plans for 2 subways at Cass and Adams St., about $48,000. C. F. Loweth, Railway Exchange Bldg., Chicago, Ch. Engr.

Wis., Ridgeway—Subway—Chicago & Northwestern Railway Co., town of Ridgeway and Brigham, plans subway and highway approaches at highway crossing near town lines. W. H. Finley, Jackson Blvd. and Franklin St., Chicago, Ch. Engr.

Kan., Humboldt—Pipe Line—Prairie Oil and Gas Co. plans, from Humboldt to St. Louis.

Neb., Douglas—Subway—Union Pacific R.R. plans, Sarpy Crossing. R. L. Huntley, 15th and Dodge St., Omaha, Ch. Engr.

Mo., Bigelow—Levee Work—G. Pointer, Secy. of Big Tarkio Drainage Dist., soon receives bids for concrete floodgate and back pressure wall and 2½ mi. levee work along Tarkio River. Leslie-Barnes Engineering Co., Engr.

Tex., Dallas—Levee—Dallas County Levee Improvement Dist. No. 1 plans 10 mi. levee along Trinity River and Cottonwood Creek.

Tex., Ft. Worth—Elimination Grade Crossing—Texas & Pacific Ry. made plans, Main St. C. H. Chamberlain, Dallas, Ch. Engr. Noted June 1.

Tex., Houston—Fire Station—Houston Heights Fire Dept. plans. M. L. O. Andrews, Fire Comr.

Tex., Orange—(Official)—Wharf and Bulkhead—City receiving bids Oct. 20. E. U. Henry, City Engr. (See adv. Oct. 5 issue.)

Okla., Ponca City—Park Improvements—Park Bd. making plans. A. Johnson, Pres. A. H. Helder, Reliance Bldg., Kansas City, Mo., Arch.

Calif., Newport Beach—Beach Protection and Jetty Work—City voted $1,000,000 bonds. I. B. Funk, 514 Central Bldg., Los Angeles, Engr. Noted Jan. 20.

Bids In and Contracts Awarded

Maine, Bath—Elimination of Grade Crossing—Maine Central R.R. let contract excavation and grading for elimination of grade crossings to LATHROP & SHEA, 185 Church St., New Haven, about $18,000. Noted Dec. 30.

Maine, Lewiston—Retaining Wall—Maine Central R.R. let contract to F. W. CUNNINGHAM & SON, 430 Congress St., Portland.

Mass., Boston—(South Boston)—Fire Station—Bids received, Dorchester Ave., from Crowley & Hickey, 1140 Columbus Ave., Boston, $31,198; D. R. McKillop & Co., 137 West Brookline St., Boston, $31,871; Archdeacon & Sullivan, 5 East Concord St., Boston, $32,149. Noted May 11.

Mass., Salem—Crematory—Harmony Grove Cemetery let contract, 1-story, to E. A. ABBOTT, 185 Devonshire St., Boston. About $6,000.

Mass., Salem—Retaining Wall—City let contract, Congress St., to J. J. WELCH & CO., Salem.

Conn., South Manchester—Fire House—South Manchester Fire Dept. let contract fire house for Hose and Ladder Co. No. 4 to C. E. TRUAX. Noted Aug. 31.

N. Y., Cranberry Lake—Dam—Cranberry Lake Comn. let contract to W. BRADLEY, Fulton, about $23,347.

N. Y., Kings Park—(Official)—Refrigerating Machine—H. W. Johns-Manville Co., Madison Ave. and 41st St., at $6,376, only bidder, Kings Park State Hospital. Noted Sept. 28.

N. Y., New York—(Bronx)—(Official)—Yard—Contract 239th St. yard of Route 18 part of White Plains Rapid Transit R.R. let to T. J. BUCKLEY CONSTRUCTION CO., $372,893. Noted Oct. 5.

N. Y., New York—(Manhattan)—Station Finish—Low bidders station finish for 6 stations on Rapid Transit Railroads now being constructed under Dual System were: L. Wechsler, 133 Broadway, $383,000; Seventh Ave. Construction Co., Inc., 277 Broadway, $390,936; D. C. Sorber, 1123 Broadway, New York, $401,702. These are unofficial totals. Noted Sept. 21.

Penn., Philadelphia—Playground Improvements—Bd. Recreation received lowest bid, Berks and Blair St. from Mitchell Bros., $44,500.

Penn., Philadelphia—Playground Improvements—Bd. Recreation received lowest bid, 24th and Jackson St., from Mitchell Bros., $47,000. C. E. Albright, City Engr. Noted Sept. 14.

Penn., Philadelphia—Recreation Building and Park Improvements—Bd. Recreation received lowest bids from P. M. Sax, $9,400, and A. Bemis, $9,400. C. E. Albright, City Engr. Noted Aug. 24.

N. C., Dendron—(Old Fort post office)—Tunnel Southern Ry. let contract to CONSOLIDATED ENGINEERING CO. About $250,000.

La., Alexandria—(Official)—Park Improvements—City will improve by own forces. About $30,000. I. W. Sylvester, City Engr. Noted July 27.

La., New Orleans—Levees—State Bd. Engrs. received bids from G. W. Gary Contracting Co., Hope Estate Levee, 3,200 cu.yd., 25c. per cu.yd., Cottage Levee, 5,300 cu.yd., 20c., Conrad Point Levee, 7,900 cu.yd., 20c., Martinez Levee, 1,000 cu.yd., 25c.; F. L. Rhodes, Plaquemine Point Levee, 28c., Mt. Olive Levee, 4,800 cu.yd., 28c.

Ky., Hickman—Levee—City let contract to DIXIE CONSTRUCTION CO., Nashville, Tenn.

Ind., Indianapolis—Flood Prevention—City received bids for flood prevention work on Fall Creek from American Construction Co., $113,000 for mass concrete and $114,100 for rein.-con.; Hackedorn Construction Co., $152,776 for mass concrete and $144,979 for rein.-con. B. J. T. Jeup, City Engr. Noted Sept. 7.

Ind., Shelbyville—Fire Station—City let contract Central Fire Station to J. NELOY, about $12,000. Noted July 13.

Wis., Milwaukee—(Official)—Dock—Dept. Pub. Wks. let contract to E. E. GILLEN CO., 1158 Wells Bldg., about $26,352. Noted Sept. 28.

S. D., Sioux Falls—Fire Station—City let contract to COLLINS BROS., Rock Island.

Mo., Caruthersville—Retaining Wall—City let contract, 2,000-ft., to PIERCE-POWERS CONSTRUCTION CO., Caruthersville, $6.75 per cu.ft.

Mo., St. Louis—Dock—Low bids received Sept. 29 for North Market Street Municipal Dock from Heman Construction Co., 187,250; List & Gifford Construction Co., $238,887; J. E. Lane & Co., $308,103. S. W. Boen, City Engr. Noted Apr. 6.

Tex., Houston—Wharves—City let contract Wharves Nos. 2 and 3 to HORTON & HORTON, $189,224. Noted Sept. 21.

Ore., Astoria—Coal Handling Crane—Port of Astoria let contract to ZIMMERMAN-WELLS-BROWN CO., Portland, $17,847.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Mass., Swansea—High School—City making plans. About $50,000. H. Vaughn, 20 Pemberton Sq., Boston, Arch.

Conn., Wethersfield—School—City voted $50,000 bonds. Unkelbach & Perry, New Britain Arch., made preliminary plans.

N. Y., Buffalo—Convent—Polish Franciscan Sisters plan, Clinton St.

N. Y., Cohoes—High School—Bd. Education receiving bids Oct. 18, 125x110-ft. Noted Oct. 5

N. Y., West Haverstraw—(Official)—Hospital—New York State Hospital for Crippled and Deformed Children, West Haverstraw, receiving bids Oct. 27. George Blagden, Pres. Bd. Mgrs. (See adv.)

N. J., Arlington—Church—First Baptist Congregation made plans. About $50,000.

N. J., Clinton—Hospital—State plans. About $100,000.

N. J., Hightstown—Peddie Institute made plans for 3-story rein.-con. addition, about $75,000. J. O. Jackson, 1328 Broadway, New York, Arch. Noted July 27.

N. J., Hoboken—School—Bd. Education making plans for 3-story brick School No. 3. About $300,000. Fagan & Briscoe, 95 River St., Hoboken, Arch.

N. J., Ocean City—Hotel and Pier—Headley & Shull, Arch., Guarantee Trust Bldg., Atlantic City, making plans. About $600,000.

Penn., Bellevue—Y. M. C. A. plans building. About $100,000.

Penn., Bethlehem—Theater—Kurts Bros. plans, 5-story.

Penn., Chester—K. Schwartz making plans for 6-story rein.-con. building. About $300,000.

Penn., Homestead—Temple—Masonic Temple, Lodge No. 582, making plans. About $50,000. M. Nirdlinger, Diamond Bank Bldg., Pittsburgh, Arch.

Penn., Jeanette—School—School Bd. plans to issue $175,000 bonds, Gaskill Ave.

Del., Newark—Armory—State Armory Bd. making plans, 2-story, 60x100-ft. Leon & Wilde, Wilmington, Arch.

N. C., Salisbury—Southern Bell Telephone Co., 78 South Pryor St., Atlanta, Ga., plans new building. About $125,000.

Ga., Decatur—Courthouse—DeKalb County Comrs. making plans. About $80,000. Walker & Chase, Candler Bldg., Arch.

Ga., Macon—Union Dry Goods Co. receiving bids about Oct. 15 for 5-story building. P. E. Dennis, Macon, Arch. Noted Apr. 13.

Ga., Macon—Auditorium and Hospital—City making plans. About $200,000. A. Blair, Arch. Noted Aug. 24.

Fla., De Land—School—Bd. Pub. Instruction of Volusia County rejected bids received Sept. 25, Rick and Clara Ave. New bids. About $50,000. F. M. Miller, Arch. Noted Sept. 21.

Fla., Miami—Temple—F. & A. M. A. plans. About $75,000.

Fla., Orlando—Theater—P. Philips plans, Pine St. and Orange Ave. About $50,000.

La., New Orleans—Loyal Order of Moose No. 477 making plans for 3-story building, about $150,000. S. G. Hart, Chn. Bldg. Com. H. J. Mackenzie, Arch.

Tenn., Clarksville—Church—Baptist Congregation making plans. About $66,000.

Ohio, Columbus—Theater—E. F. Albee, Gen. Mgr. Keith's Theaters, plans.

Ohio, Lorain—Hotel—Charles Farrell plans, Broadway and 8th St. About $50,000.

Ohio, Louisville—School—City plans. About $60,000 or $70,000.

Ohio, Weston—(Official)—School—Bd. Education rejected all bids. New plans to be made. Noted Sept. 14.

Ind., Indianapolis—Central Union Telephone Co., making plans for 3-story, 42x90-ft. building. About $45,000. Vonnegut & Bohn, 810 Indiana Trust Bldg., Arch.

Mich., Ypsilanti — Administration Building — Michigan State Normal College receiving bids Oct. 25. Fred L. Keeler, Lansing, Secy. State Bd. Education. Smith, Hinchman & Grylls, Washington Arcade, Detroit, Arch.

Ill., Bone Gap—High and Grade School—City soon receives bids, 2-story. About $50,000. L. H. Osterhage, Second National Bank Bldg., Vincennes, Ind., Arch.

Ill., Champaign—University of Illinois plans 3 buildings. About $600,000.

Ill., Moline—Congregational Church soon receives bids for brick building. About $50,000. Noted Apr. 6.

Ill., Rock Falls—School—Bd. Education plans, 2-story, 140x80-ft., brick. About $50,000. F. J. Scott, Clk. Bd. Education.

Wis., West Allis—High School—School Bd. plans. About $80,000.

Iowa, Cedar Rapids—Y. M. C. A. plans 5-story building. About $165,000.

Iowa, Iowa City—Schools—City receiving bids Oct. 28 for 3 schools, about $85,000, $75,000 and $50,000 respectively. G. L. Lockhart, 120 West Washington St., Arch. Noted Aug. 10.

Iowa, Mt. Pleasant—School—Pleasantlawn Consolidated School Dist., receiving bids Oct. 21. H. W. Underhill & Co., Bryant Bldg., Kansas City, Mo., Arch.

Iowa, Valley Junction—High School—Bd. Education receiving bids Oct. 24, Independent School Dist. A. H. Minnis, Pres. Bd. Education.

Minn., Argyle—B. D. Keck, Arch., Crookston, making plans for industrial and community building. About $43,000.

Kan., Augusta—Hospital—Roman Catholic Congregation plans. About $40,000.

Kan., McPherson — City Hall — City making plans. About $60,000. Margraf & Mampe, 413 Ridge Bldg., Kansas City, Mo., Arch. Noted Aug. 10.

Neb., Norfolk — (Official) — Temple — Masonic Temple Co. rejected bids received Sept. 25, 3-story, 44x102-ft. H. S. Thorpe, Secy. J. E. Stitt, Norfolk, Arch. Noted Sept. 7.

Buildings (Continued)

Neb., Omaha—Hospital Addition—Bd. Trustees Methodist Hospital, 36th and Ciming St., plans. About $70,000.

S. D., Miller—Courthouse and Jail—Hand County votes Nov. 7 on $100,000 bonds. Noted Apr. 13.

Mont., Great Falls—William Roberts plans 3-story, 100x150-ft. building on Central Ave. and 5th St. About $150,000.

Mont., Helena—Hotel—Hugh Daly plans addition to Broadwater Hotel. About $50,000.

Mont., Missoula—High School—City to vote Nov. 7 on $75,000 bonds. Noted July 27.

Mo., Kansas City—Kansas City and Chicago Business Men plan 22-story business and office building at 10th and Walnut St., about $1,500,000. Commerce Trust Bldg., Commerce Bldg., interested. Graham, Burnham & Co., 1447 Railway Exchange Bldg., Chicago, Arch.

Ark., Little Rock—Auditorium—First Presbyterian Church plans, 8th and Scott St. About $75,000. B. W. Green, interested.

Tex., Beaumont—Hotel—Retail Merchants' Association making plans. About $250,000.

Tex., Beaumont—Y. W. C. A. made plans for building. About $65,000.

Tex., Cleburne—Temple—Masonic Lodge making plans, 5-story. Noted July 27.

Tex., Waxahachie—Waxahachie Sanitarium plans brick building. About $50,000.

Okla., Bartlesville—High School—City election Nov. 7 to vote on $100,000 bonds.

Okla., Sand Springs—Station—Sand Springs Railway Co. making plans, 4-story, rein.-con., Main and Archer St., about $150,000. H. T. Morrison Sand Springs, Gen. Mgr.

Okla., Tulsa—Y. W. C. A. plans building. About $150,000.

Colo., Boulder—City Hall—City plans to issue $50,000 bonds.

Colo., Trinidad—School—St. Joseph's Academy made plans. About $75,000. I. H. and W. M. Rapp, Arch.

N. M., Clovis—High School—City plans to issue $50,000 bonds.

Idaho, Soda Springs — Hotel — Soda Springs Hotel and Sanatorium Co. retained Frank Paradice, Pocatello, to make plans, 3-story, 100x160-ft. About $175,000.

Idaho, Twin Falls—City votes Oct. 24 on $40,000 bonds for building. Noted May 11.

Utah, Salt Lake City—Store and Office—Mrs. V. Clift, 447 East 1st South St., making plans, 7-story, 3d South and Main St.

Ariz., Tucson—University of Arizona receiving competitive sketches Dec. 15 for building for College of Mines and Engineering, about $150,000 available. W. J. Bryan, Jr., Secy. Bd. Noted Feb. 17.

Ore., Walla Walla—Hospital—C. E. Montgomery, City Health Officer, one of committee making plans. About $100,000.

Calif., Fresno—Hospital—Fresno County making plans. About $50,000. Coates & Travers, Rowell Bldg., Arch.

Calif., San Francisco—Office—J. A. Hooper plans, 10-story, Mission and 24th St. About $90,000.

Calif., San Francisco—Office—Santa Fe Ry. granted permit, 12-story, Class A, Market and 2nd St. About $175,000. C. F. W. Felt, 5344 Hyde Park Bldg., Chicago, Ill., Ch. Engr.

N. B., St. John—Theater—F. G. Spencer, Charlotte St., making plans, brick and steel. About $100,000. F. Neil Brodie, 42 Princess St., Arch.

N. B., St. John—Hotel—H. E. Green making plans. About $40,000. F. Neil Brodie, 42 Princess St., Arch.

Que., Verdun—Gertrude Ave. College plans addition. About $75,000. J. Benoit, 1,200 Wellington St., Arch.

Ont., Hamilton—Schools—City plans issuing $135,000 bonds. R. H. Foster, Secy. Bd. Education.

Ont., Kemptville—Agriculture School, Provincial Dept. of Agriculture, retained F. R. Heakes, Parliament Bldg., Toronto, to make plans for building. About $150,000.

Bids In and Contracts Awarded

Mass., Amesbury—High School—City let contract 2-story, 125x168-ft., to KENNEDY & PETERSON CO., 7 Water St., Boston. About $109,685. Noted Sept. 14.

Mass., Fall River—Cherry & Webb let contract 4-story, 83x160-ft. brick building on South Main St. to McNALLY CONSTRUCTION CO., INC., Fall River. About $150,000. Noted Sept. 21.

Mass., Lowell—Theater, Store and Office—Strand Realty Co. let contract to A. E. BEAL, 43 Tremont St., Boston. About $150,000. Noted Sept. 7.

N. Y., Lockport—Freight Terminals—New York Central R.R. received low bid from Manion Bros., Rochester, about $52,000.

N. J., Newark—German Hospital, 340 Bank St., let contract addition to E. M. WALDRON & CO. About $50,000.

Penn., Crafton—Bell Telephone Co. let contract building to MILLER CONSTRUCTION CO., 530 Fernando St., Pittsburgh.

Md., Baltimore—Hotel—Southern Hotel Co. let contract, 16-story, 92x148-ft., rein.-con., to LONGACRE CONSTRUCTION CO., Widener Bldg., Philadelphia. About $700,000. Noted Aug. 10.

W. Va., Mullens—Bank and Hotel—Bank of Wyoming County let contract to W. B. MOORE, Princeton. About $50,000. Noted Apr. 13.

W. Va., Parkersburg—Freight Depot—Baltimore & Ohio Railroad Co. let contract, 4th and Avery St., to J. J. WALSH & SONS, 1533 Maryland Ave., Baltimore, Md. About $300,000. Noted June 29.

N. C., Salisbury—Church—First Methodist Church let contract to A. R. LAZENBY, Salisbury. About $50,000. Noted Mar. 9.

Ga., Fitzgerald—School—City let contract to AUSTIN & STONE, Ocilla.

Ohio, Xenia—Gymnasium—Wilberforce University let contract to CULLON & BAUGH, Hamilton. Noted Aug. 24.

Ind., South Bend—School—Bd. Education let contract, Sample St., to E. BURNER & CO. About $127,528. Noted June 8.

Ill., Eureka—Science Hall—Christian College let contract to MENELEY CONSTRUCTION CO., Peoria, $57,995. Noted Aug. 24.

Wis., Prairie du Chien—High School—Bd. Education let contract, 2-story, to ALBERT GUTZKE, Prairie du Chien, $67,053. Noted Sept. 14.

Iowa, Cedar Rapids—(Official)—Church—First Baptist Congregation let contract 2-story, brick and terra cotta, to THEODORE STARK & CO., Cedar Rapids. About $45,000. Noted Sept. 28.

Iowa, Mason City — (Official) — School — Bd. Education let contract, 2-story, brick and rein.-con., to H. F. JONES, Cedar Rapids. About $201,100. Noted Sept. 28.

Iowa, Muscatine—(Official)—High School—Bd. Education Independent School Dist., let contract for addition to J. H. HUNZINGER, Burlington, $49,031. Noted Sept. 28.

Iowa, Vinton—High School—Bd. Education rejected bids, about $100,000. Noted Sept. 28.

Minn., Northfield—(Official)—Dormitory—Carlton College let contract to H. N. LEIGHTON CO., 127 South 10th St., Minneapolis. About $150,000. Noted Sept. 28.

Kan., Smith Center—High School—City let contract, 2-story, 78x120-ft., to M. E. BRADY, Manhattan. About $42,000. Noted Aug. 24.

Mo., St. Louis—Bank—Mercantile Trust Co. let contract, 3-story, 127x135-ft., addition, to WESTLAKE CONSTRUCTION CO., 717 Locust St. About $500,000.

Idaho, Rexburg — Hotel — Rexburg Investment Co. let contract to PACIFIC CONSTRUCTION CO., Rexburg. About $65,000. Noted Aug. 10.

Ore., Portland—Hospital—White Shield Home let contract to MUIR & McCLELLAN, about $60,000.

Calif., Visalia—Hotel—J. S. Johnson let contract, 5-story, steel and brick, Main and Church St., to TREWHITT & SHIELDS, Fresno, $107,000. Noted Aug. 24.

Que., Quebec — Hospital — Anti-Tuberculosis League let contract, brick, to J. GOSSELIN, Levis. About $125,000. Noted July 13.

Que., Trois Rivieres—Academy—School Bd. let contract to ANSELME DUBE, 133 Bellefeuille St. About $84,000.

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INDUSTRIAL CHANGES IN EUROPE

In an address by Edward N. Hurley, Chn. Federal Trade Comn., before the annual meeting of the Ohio Bankers Association at Columbus, Ohio, he states that "when we think of Europe we think of a continent engulfed in war, devastated and disordered, but I want to say to you that we must correct that conception. While in many respects we know little of what is going on in the warring nations, we do know that within sound of the guns, almost within reach of the falling shells, Europe is reorganizing her industries. Under the stress of a life-and-death struggle every effort is being made to obtain the highest efficiency in the production, the distribution and the use of commodities of all kinds. Conservatism in industrial ideals and methods has been blasted and shattered to pieces in the shock of war, old systems that normally would have hung on for years have been discarded in a day, old equipment that would have been retained for years has been scrapped as fast as possible for new installations of the most advanced types. New processes are being discovered, new inventions are being made, and new forms of organization are being created. Let me illustrate. Industrially, France has been preëminently the land of small-scale, highly individualized production, but she now lacks human hands. In France little farms that for generations have been farmed practically by hand or with the aid of a horse or two, are being thrown together and farmed coöperatively by tractors, gang plows and modern agricultural implements. France must rely on machinery. Her business men are studying and are applying American systems of manufacture in factory construction, in equipment, and in large-scale, highly systematized production.

"England industrially has been preëminently the land of yesterday. Conservatism was the dominant characteristic of British business. While Massachusetts was making textiles with automatic looms under conditions that permitted one operator to tend from 16 to 24 machines, Lancashire clung to old equipment and conditions under which one operator could tend but 4 machines. But at last England is aroused, and today American books on efficiency and scientific management are being bought by the hundred and studied all over England. The war has compelled Great Britain to make thirty years of industrial progress in thirty months.

"Before the war Germany was probably the most highly organized and efficient manufacturing nation in the world, but in Germany organization and efficiency have been still further developed, and, no matter whether victorious or defeated, the Germany that emerges from the war will be years ahead of the Germany we knew in 1914.

"These changes are of great concern to us. We may not realize this today, because things are coming our way now, but we must look ahead to the future conditions we must prepare to meet. Almost before we know it we will find a new Europe competing against us with war-sharpened brains and war-hardened muscles, not only in our foreign markets but also right here at home. If our industries are not to be caught slow of mind and flabby of muscle we must improve our business organization, must increase our manufacturing and merchandizing efficiency and must keep pace with every step in Europe's industrial progress.

"In considering our position after the war, I wish to talk chiefly about what we must do here at home, but I cannot talk to you on this subject without first referring briefly to what we must do in our foreign business. Next to England we have the greatest foreign trade of any nation in the world. Our exports and imports reach billions of dollars in value. Gentlemen, we must keep and expand that great trade. It means the full tide of prosperity for our factories and farms. It means the best comforts and conveniences of modern civilization for the families and homes of this country. But if we are to keep that trade and make it grow as a healthy business should grow, we must have the organization and the facilities needed."

Pennsylvania Distributes $5,400 for Best Care of Track—When General Manager C. C. Long, of the Pennsylvania Railroad, accompanied by some 400 operating officers, arrived in Harrisburg, after completing the first day of his annual track inspection, an aggregate of $5,400 in prizes was awarded to supervisors and their assistants for maintaining their sections of track in the best condition during the past year. The territory covered includes the main line between Pittsburgh and New York, and between Philadelphia and Washington.

The first or "Klondike" prize, amounting to $800 for the supervisor and $400 for the assistant, awarded for maintaining the best section of track throughout the past year, was presented to C. M. Wisman, supervisor, and H. M. Grimm, assistant supervisor, who have charge of the track from east of Liddonfield, Penn., to west of Plainsboro, N. J.

A special "Improvement" prize of $1,000, $700 to the supervisor and $300 to the assistant, for the greatest improvement made in the line and surface of a supervisor's section of track was awarded to J. E. McIntyre, supervisor, and W. W. Portser, assistant supervisor, who have charge of the track from Anderson, Penn., to east of Thompsontown, Penn.

The awards were made upon the basis of frequent inspections during the past year by a special committee appointed for the year.

Labor Unrest Hurts Trade — Unsettled labor conditions and the shortage of workers constitute to a large extent the only cloud upon the business horizon, according to a summary of reports from the twelve Federal districts to the Federal Reserve Board. Business is reported to be good in practically all districts, and in some it is described as most satisfactory and expanding. One disturbing element has been the crop shortage, not only of grains but of cotton. The prices of food products are constantly mounting.

Boston reports unrest in labor and cost of foodstuffs as disturbing elements, as does New York, Philadelphia, Cleveland and Richmond report serious shortage in labor. St. Louis says that increases in wages have not improved labor conditions.

The Kansas City report says: "Railroad shopmen are demanding an eight-hour day, with an increase of 5c. an hour in wages. Twenty-two Western lines and more than 25,000 employees are affected. Included are car repairers, boilmakers, machinists, sheet-metal workers, blacksmiths and electrical workers."

San Francisco reports that general business conditions are good, except in the lumber industry.

Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Pennsylvania—Philadelphia & Reading Ry. made plans for electrification of Germantown and Chestnut Hill Branch, Glenside and Jenkintown Branch and Norristown line. S. T. Wagner, Philadelphia, Ch. Engr.

Maryland—Cumberland & Westernport Electric Ry. plans to rebuild line from Moscow to Barton. B. W. Duncan, Gen. Mgr.

West Virginia—Kanawha Traction and Electric Co. to issue $1,700,000 bonds, $40,000 to be used for improvements in Parkersburg. P. P. Crafts, Parkersburg, Gen. Mgr.

West Virginia—Monongahela Valley Traction Co. soon lets contract for extension of Weston line through Stealey Heights St., Fairmont. E. B. Moore, Fairmont, Gen. Mgr. Noted Sept. 21.

Illinois—Illinois Traction System, Peoria, plans to improve lines around Catlin. G. M. Mattes, Champaign, Vice-Pres.

Illinois—St. Louis & Southern Illinois Electric Ry. plans line from Marion through Harrisburg, Herrin, Benton and West Frankfort to Johnson City. About $3,000,000. W. H. Schott, of Kennedy, Mitchell & Co., New York, interested.

Iowa—Mason City & Clear Lake Railroad Co. plans 1½ mi. new line in Mason City. F. J. Hanlon, Mason City, Gen. Mgr.

Nebraska—Omaha, Lincoln & Beatrice Interurban Co., Lincoln, will build line from Lincoln to Omaha. J. M. Bramlette, Lincoln, Gen. Mgr. Noted Sept. 14.

South Dakota—Mitchell & Northwestern Ry. granted permission by State Railroad Comn. for line from Mitchell to Highmore through Davis, Aurora, Jerauld, Buffalo, Hand and Hyde Counties, about 100 mi. E. R. Tillinghast and W. L. Bruce, Mitchell, interested. Noted Sept. 21.

Missouri—Kansas City Rys., Kansas City, plans to extend Broadway line to 24th St. and Union Station. J. E. Gibson, Kansas City, Gen. Mgr.

Missouri—St. Joseph Railway, Light, Heat and Power Co. plans to acquire St. Joseph & Savannah Interurban Ry. and will build interurban line from St. Joseph to Atchison, Kan., about 20 mi. J. H. Van Brunt, Vice-Pres. and Gen. Mgr.

Idaho—Pocatello Traction and Interurban Ry., Pocatello, plans to extend lines to upper Snake River Valley and Rexburg. C. Gibson, Pocatello, Secy.

Arizona—Geronimo Mining Co., Geronimo, plans standard-gage railway from Geronimo northeast to copper mines, about 6 mi. D. J. Shea, Boston, Mass., Pres.

Oregon—City received no bids for 28⅝ mi. line from Roseburg to Rock Creek. R. L. Whipple, City Clk. L. G. Hocks, City Engr. Noted Aug. 17.

California—Pacific Electric Ry., Los Angeles, plans to rebuild tracks on Santa Monica Blvd. J. McMillan, Los Angeles, Gen. Mgr.

Mexico—E. Cantu, Governor Lower California, soon lets contract for line from Mexicali to San Felipe, about 70 mi. Noted June 8.

Bids In and Contracts Awarded

Ohio—Cleveland, Southwestern & Columbus Ry., Cleveland, let contract grading branch line around Berea to L. F. GOTTE, Berea, about $40,000.

LIGHT, HEAT AND POWER

Proposed Work

Mass., Petersham—Town plans to install electric-lighting system.

Conn., West Cheshire—Bell & Socket Co. made plans for power house at factory.

Penn., Woodbury—Council plans to install electric-light plant.

Va., Fork Union—Fork Union Military Academy plans to install electric-light plant.

N. C., Pilot Mountain—Pilot Electric Co. granted franchise for electric-lighting system in Pilot Mountain. J. Hiatt, interested.

Ga., Dawsonville—Howser Bros. interested in installation of electric-lighting system in Dawsonville.

Fla., Howey—See item under "Water-Works."

Fla., Lake Butler—City election Nov. 9 to vote on $10,000 electric-light plant bonds. B. M. Wilson, Mayor. Noted Sept. 21.

Fla., St. Cloud—See item under "Water-Works."

Miss., Durant—City plans to improve municipal electric-light plant. E. W. Weathers, Supt.

La., Welsh—City plans election to vote on $15,000 bonds for extending electric-light system.

Ky., Georgetown—City election Nov. 7 to vote on $100,000 bonds for electric-light plant and water system.

Ky., Paintsville—See item under "Water-Works."

Ohio, Bellefontaine—Council plans new gas plant. About $50,000.

Ohio, Tiffin—County plans new boiler house and heating plant, about $10,000. Address Clk., Tiffin.

Ohio, Urbana—Northwestern Ohio Light Co., Urbana, plans transmission line from Urbana to Westfield.

Ill., Arenzville—Arenzville Light and Power Co., recently incorporated with $10,000 capital stock, plans electric-light plant. J. C. Pratt, interested.

Wis., Eau Claire—Wisconsin-Minnesota Light and Power Co., Eau Claire, plans to extend transmission lines through Alma.

Iowa, Elkader—Schmidt Bros. & Co. plan to extend transmission lines from Elkader to St. Olaf and Farmersburg.

Iowa, Humboldt—Northern Iowa Gas and Electric Co. granted permission for transmission line in Wright County.

Iowa, Shenandoah—City election Nov. 7 to vote on bonds for electric-light plant.

Minn., Bethel—Eastern Minnesota Power Co., Pine City, granted franchise to install electric-lighting system in Bethel. J. M. Allen, Pine City, Pres.

Minn., Robbinsdale—Council plans to install electric-lighting system.

Kan., Lenora—City election Oct. 26 to vote on bonds for electric-light plant. C. W. Thuma, City Clk.

Kan., Reserve—Citizens voted $7,000 bonds for distribution system. Noted May 11.

Kan., Spring Hill—City plans election to vote on $4,000 bonds for electric-light plant.

Neb., Imperial—Citizens voted $15,000 bonds for hydro-electric-light and power plant. Grant & Fulton, Bankers' Life Bldg., Lincoln, Engr.

Neb., Sterling—Sterling Light and Power Co. made preliminary surveys for 50 mi. transmission lines. W. W. Marks, Gen. Mgr.

Neb., Wolbach—Citizens voted $10,600 electric-light plant bonds. Martz Engineering Co., Orpheum Bldg., Lincoln, Engr.

Neb., York—Public Service Corporation making plans 1-story, 80x120-ft. power house, about $20,000.

N. D., Granville—City plans to install electric-light plant.

Tex., Jacksonville—Jacksonville Electric and Ice Co., recently incorporated with $90,000 capital stock, plans electric-light plant and ice factory in Jacksonville. R. W. Baker, Palestine, interested.

Okla., Buffalo—Citizens voted $15,000 electric-light plant bonds.

Okla., Stroud—City soon receives bids for improving electric-light plant and system. About $7,000. Benham Engineering Co., Colcord Bldg., Oklahoma, Engr.

Okla., Yale—City election soon to vote on $10,000 electric-light plant bonds. G. C. Dale, interested.

Idaho, Pocatello—(Official)—City receiving bids Oct. 26 for street-lighting system in Local Improvement Dist. No. 15. A. R. Dawson, City Clk. J. H. Giles, City Engr. (See adv.)

Utah, Salt Lake City—Utah Power and Light Co. plans electric transmission line to Pacific property, American Fork Dist. M. Cheever, Salt Lake City, Engr.

Ariz., Phoenix—City election Oct. 23 to vote on $600,000 electric-light plant bonds. J. B. Girard, City Engr. Noted June 8.

Ariz., Wickenburg—City receiving bids Oct. 30 for electric-light and power plant and addition to water-works system. H. P. Ward, Town Clk. Noted July 20.

B. C., Grand Forks—Council plans to extend electric-light plant.

B. C., Nelson—Dir. Utica Mines plans to build power plant.

Bids In and Contracts Awarded

Mass., Chicopee Falls—Fiske Rubber Co. let contract boiler house to F. T. LEY & CO.

N. J., New Brunswick—Ringwalt Linoleum Co. let contract boiler house to F. KILGUS, 13 South 6th St., Newark. Noted July 20.

Tenn., Bristol—F. Dulaney and associates let contract dam for hydro-electric plant on Holston River to BRISTOL TRACTION CO., Bristol, about $75,000. Noted Aug. 31.

Ill., Murphysboro—Western Gas and Electric Co. let contract 1-story gas plant to L. W. PETERS, Murphysboro.

Kan., Minneola—City let contract electric-light plant to I. C. BUSHONG CO., Ottawa, $15,877. Noted June 1.

Mo., Kansas City—Kansas City Light and Power Co., 1,500 Grand Ave., let contract subpower station at 205-7-9 Holmes St. to E. L. WINN CONSTRUCTION CO., Midland Bldg., about $7,000.

Ore., Portland—Sisterhood of Good Shepherd awarded contract for power house to LITHERLAND & ABREY, Portland.

BRIDGES

Proposed Work

Mass., Greenfield—Towns of Greenfield and Montague plan bridge to connect towns. About $20,000. F. E. Wells, Greenfield, interested.

Mass., Leominster—City plans to rebuild bridge on Mechanic St. J. H. Johnson, Supt. St.

Conn., Waterbury—City plans bridge over Mad River on South Main St., about $10,000. R. A. Cairns, City Engr.

N. Y., Dansville—(Official)—Steuben County defeated proposition for steel bridge. Noted Oct. 5.

N. Y., Kingston—Ulster County plans 736-ft. bridge at Kingston, about $12,000. J. F. Laughren, Kingston, Supt. Highways. Steel Engineering Co., Park Row Bldg., New York, Engr.

N. Y., Lewiston—Ontario & Niagara Connecting Bridge Co. plans rein.-con. bridge over Niagara River. F. A. Dudley, 45 Falls St., Niagara Falls, in charge.

N. Y., Moira—Franklin County plans steel bridge at Moira, about $4,000. S. A. Howard, Malone, Supt. Highways.

N. Y., New York—(Bronx)—F. H. Kracke, Comr. Bridges, Municipal Bldg., receives bids about Jan. 25 for Eastchester Bridge over Hutchinson River. About $180,000. Noted Jan. 6.

N. Y., Walton—Delaware County plans 2 bridges at Walton, about $7,000. A. L. Van Tassle, Treadwell, Supt. Highways.

N. J., Bloomfield—Bd. Freeholders plan bridge on Willow St.

N. J., Cape May—Comrs. Cape May County plan 3 bridges on Ocean City-Corson's Inlet Rd. over Main Channel, Middle Thoroughfare and Weakfish Creek. Address Clk., Cape May.

N. J., Rahway—Bd. Freeholders Union County rejected bids for repairing Milton Ave. Bridge. New Bids. Address Clk., Elizabeth. Noted Sept. 7.

Penn., Conshohocken—Comrs. Montgomery County, Norristown, plan bridge over Schuylkill River between Conshohocken and West Conshohocken. B. H. Davis, Whitehall Bldg., New York, Pugh & Hubbard, Philadelphia and J. Cresson, County Engr., Norristown, Engr.

Penn., Freedom—City plans bridge across Ohio River between Freedom and Vanport.

Penn., Greensburg—Westmoreland County soon lets contract concrete bridge over Indian Creek, Donegal Township. Address County Clk., Greensburg.

Penn., Lancaster—City plans bridge at College Ave. over tracks of Philadelphia & Reading Ry. S. T. Wagner, Philadelphia, Ch. Engr.

Penn., Rochester—Pennsylvania Lines West of Pittsburgh plans 200-ft. bridge over Beaver River, including 2 steel spans, double-track, etc. T. Rodd, Pittsburgh, Ch. Engr.

Penn., Uniontown—Fayette County making plans for bridge over Monongahela River between Fayette City and Allenport. About $200,000. Address County Clk., Uniontown. Noted Oct. 5.

Penn., Upland—City making plans for bridge over Chester River at Kerlin St.

Penn., Wilkes-Barre—Luzerne County plans bridge over Susquehanna River at West Market St. Address County Clk., Wilkes-Barre.

Md., Georgetown—State Highway Comn., Garrett Bldg., Baltimore, making plans for rein.-con. bridge over Sassafras River. About $50,000. F. H. Zouck, Baltimore, Chn. Comn.

Md., Ocean City—State Highway Comn., Garret Bldg., Baltimore, plans bridge across Synepuxtent Bay. About $200,000. F. H. Zouck, Baltimore, Chn. Comn.

Va., Richmond—C. E. Bolling, City Engr., estimates cost of new Southside Bridge at $704,558.

N. C., Charlotte—Comrs. Mecklenburg and Gaston Counties plan bridge over Catawba River at Sloans Ferry. M. McDonald, Charlotte, Chn. Comrs. Mecklenburg County.

Bridges (Continued)

S. C., Camden—J. T. Mackey, Cashier National Bank of Camden, interested in bridge over Wateree River, about $80,000.

S. C., Gaffney—Supervs. York, Chester and Cherokee Counties plan to rebuild Irene Bridge destroyed by flood. Address County Clk., Gaffney.

Ga., Rome—City plans rein.-con. bridge over Silver Creek, about $6,000. H. T. McCray, City Engr. S. S. King, Supt. Pub. Wks.

La., Boyce—City soon receives bids for bridge over Red River, about $40,000.

La., Houma—City plans steel bridge over Baratorre Canal. R. Chauvin, Mayor.

Tenn., Knoxville—City plans viaduct on Gay St. J. B. McCalla, City Engr.

Ohio, Cleveland—City appropriated $50,000 for West 3d St. bridge. R. Hoffman, City Engr. Noted Oct. 12.

Ohio, Dayton—Montgomery County receiving bids Nov. 4 for steel superstructure for Bridge No. 76, one 240-ft. span and 18-ft. rein.-con. roadway. W. H. Aszling, Dayton, Clk. Noted July 13.

Ohio, Sidney—Shelby County receives bids for Hardin Bridge, Turtle Creek Township, about $6,-200. G. P. Atley, Sidney, Audr.

Ill., Lincoln—Lincoln County soon to receive bids for rein.-con. bridge over Kickapoo Creek.

Wis., Glenwood City—City plans rein.-con. bridge.

Wis., Milwaukee—City election Nov. 7 to vote on $250,000 bonds for bridge over Milwaukee River between Oneida and Cedar St. F. G. Simmons, Comr. Pub. Wks. J. C. Pinney, Jr., Supt. Bridges. Noted June 1.

Wis., Sheboygan—City receives bids in spring for viaduct on South 14th St. About $50,000. Klug & Smith, 40 Mack Bldg., Milwaukee, Engr. Noted Aug. 24.

Iowa, Newton—Jasper County receiving bids about Jan. 1 for bridges and culverts. About $25,000. C. O. Edge, Newton, County Audr. Noted Mar. 9.

Minn., Brainerd—City plans bridge in Perry Lake and Camp Creek Townships.

Minn., Mankato—City of Mankato and Nicollet County plan bridge in Mankato. Address County Clk., St. Peter.

Kan., Parsons—Labette County made plans for concrete bridge on Main St. About $7,000. Address County Clk., Oswego.

Kan., Topeka—City making plans for bridge across Kansas River.

Mo., Doniphan—Ripley County receiving bids Nov. 9 for 3 rein.-con. bridges over Ditch No. 2. Address County Clk., Doniphan.

Mo., St. Charles—St. Louis & St. Charles Bridge Co. plans to spend about $180,000 to rebuild highway bridge. Bids until Nov. 1. Hedrick & Hedrick, Kansas City, Engr.

Tex., Waco—City election Nov. 7 to vote on $25,000 bridge bonds. G. B. Gunley, City Engr.

Okla., Claremore—Rogers County soon receives bids for steel bridge, about $21,000. C. Martin, Claremore, Engr.

Okla., Buffalo—Harper County plans to spend $33,000 for bridge work in Center, Good, Little and Saline Townships. Address County Clk., Buffalo.

Okla., Chickasha—Grady County plans election to vote on $100,000 bridge bonds. E. E. Colby, First National Bank Bldg., Chickasha, Engr.

Okla., Oklahoma—City making plans for 5 or 6 rein.-con. bridges. G. V. McClure, City Engr. H. A. Pressey, 47 West 34th St., New York, Consult. Engr.

Colo., Denver—(Press)—Council and officials of 4 railroads entering Denver plan to rebuild 23rd St. Viaduct. About $250,000. J. B. Hunter, City Engr.

N. M., Mora—Mora County plans bridge across Canadian River connecting Wagon Mound and Solano.

Ariz., Florence—Pinal County plans 6 new spans to bridge over Gila River, about $65,000. E. S. Stafford, Florence, County Engr.

Wash., Seattle—Bd. Pub. Wks. approved plans for steel viaduct approach to Fremont Ave. Bridge, about $19,050. F. A. Rapp, City Bridge Engr.

Calif., Live Oak—Sutter County to vote on $300,000 bonds for bridges at Live Oak and Nicolaus. Address County Clk., Yuba City. Noted July 27.

Calif., San Diego—See item under "Water-Works."

Calif., Yuba City—City election Nov. 7 to vote on $300,000 bridge bonds. Noted Apr. 6.

Bids In and Contracts Awarded

Maine, South Portland—City let contract bridge over Long Creek to F. L. FLEMING, Exeter and Washburn St., Portland, about $5,000. Noted July 27.

Penn., Blairsville—City let contract bridge over Robinson Run near Blairsville to G. C. OVERDORF, Blairsville, about $10,000.

Penn., Doylestown—Bucks County let contract repairs to bridge over Nashaminay Creek to DAVID SUTTON, Riegelsville, about $4,500.

Penn., Ebensburg—City let contract Laurel Run bridge in West Taylor Township to B. L. McKILLIP, Hollidaysburg.

Penn., Parnassus—Westmoreland County let contract bridge over Little Puckety Creek to FERRIS ENGINEERING CO., about $8,700. Noted Sept. 28.

Va., Pearisburg—(Official)—Giles County let contract rein.-con. bridge over New River, at Narrows, to CHAMPION BRIDGE CO., Wilmington, Ohio. About $30,970. Noted Sept. 7.

Va., Roanoke—American Viscoe Co. let contract bridge over Roanoke River to ROANOKE BRIDGE AND IRON CO., Roanoke, about $5,000.

Ga., Milledgeville—Baldwin County let contract 2 bridges to INTERNATIONAL STEEL AND IRON CO., Evansville, Ind., about $9,000.

Ohio, Columbus—City let contract repairing Rich St. Bridge to CAPITAL CONSTRUCTION CO., Columbus, about $21 039. Noted Aug. 10.

Ohio, Upper Sandusky—Wyandotte County let contract Hurd Bridge, Crawford Township, to RITTER BROS.

Ill., Lincoln—County let contract bridge over Salt Creek to DECATUR BRIDGE CO., Decatur, about $11,600. Noted July 13.

Ill., New Douglas—City let contract 2 rein.-con. bridges to the PARBON CONSTRUCTION CO., East St. Louis.

Ill., Princeton—Bureau County let contract Red Mills Bridge to JOLIET BRIDGE AND IRON WORKS, North Collins St., Joliet.

Iowa, Council Bluffs—City let contract bridge across Indian Creek to E. A. WICKHAM. About $7,607.

Iowa, Wheatland—(Official)—City let contract bridges to JOHN R. KANE, Charlotte.

Kan., Beloit—Mitchell County let contract White Bridge to J. MADTSON, Beloit, $5,690. Noted June 1.

Mont., Phillipsburg—Granite County let contract bridge over Hellgate River near Iris to O. E. PEPPARD, Missoula, about $5,040. Noted Sept. 21.

Mo., De Soto—City let contract bridge across Big Rover at Kingston's Ford, at $6,830, and bridge across Meramec River at Le May Ferry at $9,975 to MILLER & BOROHERDING.

Tex., Austin—City let contract bridge over Big Walnut Creek to the ALMO CONSTRUCTION CO., San Antonio. About $4,000.

Okla., Chickasha—City let contract 2 small bridges to MIDLAND BRIDGE CO., Midland Bldg., Kansas City, Mo. About $4,450.

Okla., Guthrie—Logan County let contract bridge over Cimarron River to CANTON BRIDGE CO., Canton, about $18,500. Noted Sept. 21.

Wash., Spokane—City received low bid for concrete bridge over Spokane River on Washington St from C. L. Graves. About $17,747. Noted Sept. 14.

Ore., Portland—City let contract rein.-con. viaduct on St. Helena Rd. to PALMER-ELLISON CO., Henry Bldg., $5,616.

Calif., Santa Barbara—Santa Barbara County let contract rein.-con. bridge across Cat Canyon at Sisquoc and rein.-con. culvert bridge near Guadalupe to M. R. DOMINGUEZ, Carpenteria, about $10,865.

Calif., Willow—(Official)—Glenn County let contract bridge work to ROSS CONSTRUCTION CO., $4,666, and MANNING BROS., $4,625. Noted Sept. 28.

B. C., Victoria—Canadian Northern Ry. let contract bridge to BRUCE & ESCHBACH, American Bank Bldg., Seattle.

WATER-WORKS

Proposed Work

N. Y., Batavia—City receiving bids Oct. 25 for superstructure and appurtenances for pumping station. Chester & Fleming, Pittsburgh, Engr. Noted Aug. 31.

N. Y., Thiells—(Official)—Bd. Mgrs., Lethworth Village, receiving bids Oct. 26 for alterations to storage reservoir. F. A. Vanderlip, Pres. Bd. (See adv.)

N. J., Atlantic City—(Official)—City receiving bids Oct. 26 for c.-i. high-pressure fire-service main. L. Van Gilder, Engr. and Supt. Water Dept. J. B. Thompson, Dir. Parks and Pub. Prop. (See adv.)

Penn., Milton—State Dept. Health approved plans for extension of Mountain Water Co.'s distributing system. H. S. Keirn, Supt.

Penn., Oxford—Plans approved for water system.

Penn., Watsontown—Plans of Watsontown Water Co. approved by State Dept. Health for extension of water system.

Va., St. Paul—City will grant franchise for installing water-works.

Fla., Howey—Howey Land Co. plans pumping station and electric-light plant. J. H. Kelley, 76 West Monroe St., Chicago, Gen. Mgr. F. J. Postel, 343 South Dearborn St., Chicago, Engr.

Fla., St. Cloud—(Official)—City receiving bids Dec. 1 for water-works, power equipment, street paving, sewers and sewage disposal plant. W. A. Ginn, St. Cloud, Engr.-in-Charge. F. B. Kenney, City Clk. (See adv.)

La., Bogalusa—City voted $228,500 bonds for water-works, sewers, street paving and schools. Noted Feb. 24.

La., Welsh—See item under "Light, Heat and Power."

Ky., Georgetown—See item under "Light, Heat and Power."

Ky., Paintsville—J. Buckingham interested in project to install water-works and electric-light plant.

Ohio, Defiance—City to sell $125,000 waterworks bonds Nov. 2. C. O. Ensign, Audr. Noted Sept. 21.

Ohio, Elyria—Water-Works Dept. will ask Council for appropriation of $150,000 for improving system. J. M. Dougherty, Supt.

Ohio, Geneva—Geneva Water Co. soon receives bids for sedimentation tank and filter plant, about $6,000. J. Reeves, Supt.

Ohio, St. Bernard—(Official)—City to vote in November on $90,000 bonds for water-works extension, water-softening plant and electric-light plant. E. C. Heller, Supt. Noted Oct. 5.

Ohio, Westerville—City to vote Nov. 7 on $30,-000 water-works improvement bonds. Richards Engineering Co., 37½ East Long St., Columbus, Engr.

Ohio, West Park—(Official)—Bd. Trustees receiving bids Oct. 23 for 6-in. water main in Bennington and Nichols Ave. and Belleflower and Magnolia Dr. D. W. Nichols, Clk. Noted Oct. 5.

Ohio, Wooster—City election in November to vote on $80,000 water-works bonds. W. J. Sherman Co., 613 The Nasby, Toledo, Consult. Engr. Noted Sept. 21.

Mich., Lansing—Bd. Water and Electric-Light Comrs. receiving bids Nov. 1 for 2 concrete reservoirs. G. C. Crane, Supt. Water-Wks. Noted Aug. 10.

Mich., Mt. Clemens—City plans to spend about $10,000 for improving water-works. A. Kells, Supt.

Mich., Port Huron—St. Clair County plans water main in 10th Ave. L. C. Elliot, Port Huron, Clk.

Ill., Aurora—City making plans for 1,500,000 gal. circular reservoir, about $20,000. D. H. Maury, 53 West Jackson Blvd., Chicago, Engr. T. D. Stinson, Supt.

Ill., Joliet—Bd. Local Impvts. receiving bids Oct. 23 for water main in portion Wilcox St. C. D. O'Callahan, City Engr. Noted June 22.

Wis., Ashland—City plans to extend water system. J. B. La Chapelle, City Clk.

Minn., Cambridge—City election soon to vote on $15,000 water-works bonds.

Minn., Gaylord—See item under "Sewers."

Minn., Lake Crystal—City receiving bids Oct 27 for water system, about $30,000. J. F. Druar, St. Paul, Engr

Kan., Argonia—Citizens voted $20,000 waterworks bonds. W. B. Rollins & Co., 439 Railway Exchange Bldg., Kansas City, Mo., Engr. Noted Sept. 28.

Kan., Caldwell—City making plans for waterworks improvement. About $60,000. Burns & McDonnell, Kansas City, Mo., Engr. I. M. Horton, Mayor. Noted July 27.

Kan., Geuda Springs—City making plans for water system. About $17,000.

Neb., Imperial—City soon receives bids for water system, about $12,000. Grant & Fulton, Bankers Life Bldg., Engr. Noted Aug. 31.

N. D., Hankinson—City made plans for water system, about $20,000. J. F. Druar, 312 Commercial Bldg., St. Paul, Engr. Noted June 8.

Mo., Joplin—City plans extending water mains on Joplin St.

Ark., Ashdown—(Official)—City does not plan water system as stated in Sept. 21 issue.

Tex., Cisco—City plans to extend water system, about $5,000. H. J. Bradshaw, Engr.

Tex., Cooledge—City making plans for water system, about $26,000. H. E. Elrod, Interurban Bldg., Dallas, Engr. Noted May 18.

Tex., Jacksonville—See item under "Light, Heat and Power."

Tex., Galveston—City sold $100,000 water-works bonds. A. M. Burgess, Supt.

Tex., San Benito—City plans water-works. R. A. Riddle, Supt.

Okla., Buffalo—City voted $15,000 water-works bonds. Noted Oct. 5.

Okla., Caney—City plans $18,000 bond issue for water-works.

Okla., Marlow—Citizens voted $25,000 water bonds. L. A. Ponchett, Supt. Noted Oct. 12.

Okla., Skiatook—(Official)—City does not plan water system and electric-light plant as stated in issue of Sept. 28.

Okla., Stroud—City soon receives bids for water system about $18,000. Benham Engineering Co., Colcord Bldg., Engr. Noted June 15.

Okla., Yale—City election soon to vote on $15,-000 water-works bonds. G. C. Dale, Pres. Bd.

Water-Works (Continued)

Ariz., Wickenburg—City receiving bids Oct. 30 for extending water system. H. P. Ward, Town Clk. Noted Aug. 17.

Calif., San Diego—City election Nov. 17 to vote on $682,000 bonds for pipe line from Otay dam site to Bonita "Y" and 2 bridges over San Diego River. H. R. Fay, Supt. Noted Oct. 5.

Calif., Salinas—City making plans for storm water system. A. Davies, City Engr.

Ont., Smiths Falls—Council plans filter plant, about $20,000. S. B. Code, Engr.

Bids In and Contracts Awarded

Mass., Newton—City let contract 2 reservoirs on Waban Hill to OLD COLONY CONSTRUCTION CO., 6 Beacon St., Boston, about $75,000.

N. Y., New York—(Queens)—(Official)—Dept. Water Supply, Gas and Electricity received low bids Oct. 10 for water mains as follows: (a) Sect. 1, Franklin, Sound Stone and Van Dam St. and Flushing, Nassau, Skillman, Stah, Vandeventer, Wolcott, 5th, 9th and 12th Ave.; (b) Sect. 2, Green, Storm, West, 1st, 2d, 3d, 4th, 5th, 6th and 22d St. and Bayside, Bismarck, Lamartine and Straiton Ave. from James McCoy, 315 East 127th St., Manhattan, (a) $63,103, (b) $23,947; Figliucla Construction Co., 719 Union Ave., Bronx, (b) $22,322; Santor Construction Co., (a) $66,112, (b) $31,555.

Penn., Erie—Hammerhill Paper Co. let contract rein.-con. settling basins for 20,000,000-gal. filter plant to H. SHENK CO., Erie. Noted Aug. 17.

Ohio, Youngstown—Liberty Water Co. let contract reservoir dam across Squaw Creek Valley to FLETCHER & JAMES, 1641 Himrod Ave., Youngstown. Noted June 22.

Ohio, Zanesville—City let contract twenty 10-in. wells to R. H. KERSEY, South Bend. Noted Sept. 28.

Ill., Rankin—City let contract water system to THE NATIONAL CO., South Bend Ind., about $7,800; also distribution system, at $17,568.

Wis., Rhinelander—Bd. Pub. Wks. let contract water mains in Maple and Davenport St. to ONEIDA PLUMBING AND HEATING CO.

Kan., Ellis—City let contract improving water system to EVERETT & BURT, Hutchinson. About $11,445. Noted Sept. 28.

Mo., Kansas City—City let contract 5,000 Badger water meters to U. S. WATER AND STEAM SUPPLY CO., Kansas City, $14,875.

Mo., Paris—(Official)—City let contract filter plant to BICKELL CONSTRUCTION CO., Kansas City, about $12,000. Noted Oct. 5.

Mo., Trenton—(Official)—City let contract filter plant to T. H. JOHNSON, Sedalia, $9 948; mechanical equipment for 1,200,000-gal. filter, PITTSBURGH FILTER CO., Pittsburgh, $8,860. Noted Sept. 28.

Calif., Norwalk—Bd. Superv., Los Angeles, received low bid for 32,000-ft. 6-in. and 16,000-ft. of 4-in. banded wood stave or c.-i. pipe line with 2-in. circulating line, 22-ft. diameter wood stave tank on 50-ft. timber power, pumping plant to lift 90-ft. and sinking 12-in. well 400-ft. deep in Water-Works Dist. No. 2 from T. Haverty Co., 517 South Los Angeles St., Los Angeles, $14,395.

SEWERS

Proposed Work

N. Y., Kenmore—City soon receives bids for sanitary sewers in East Hazeltine Ave., about $5,000. E. W. Johnson, 2852 Delaware Ave., Clk. White & Getman, Mutual Life Bldg., Buffalo, Engr. Noted Sept. 28.

N. Y., New York—(Bronx)—D. Mathewson, Borough Pres., receiving bids Oct. 24 for sewers in portions of Westchester Ave., West 230th, West 231st and Lyvere St.

N. J., Union—(Official)—Union Township Comrs., Bergen County, receiving bids Oct. 27 for sewers and disposal plant. John F. Woods, Odd Fellows' Hall, 595 Valley Brook Ave., Lyndhurst, Township Clk. Thomas F. Bowe, East Rutherford, Civil Engr. (See adv.)

Penn., Johnstown—State Dept. of Health approved plans for intercepting sewer. J. R. Crissey, City Engr.

Penn., Kittanning—Borough making plans for intercepting sewer about $10,000. W. Mast, Borough Engr. Noted Aug. 10.

Penn., Lancaster—City plans sewage-disposal plant. F. H. Shaw, Breneman Bldg., Lancaster, Engr.

Penn., New Bethlehem—City plans election to vote on $25,000 bonds for sanitary sewers in Dist. No. 1. E. W. Hess, Clearfield, Engr.

Penn., Pottsville—City plans to install sewage-disposal plant, about $60,000. W. S. Pugh, City Engr.

Penn., Winton—State Dept. of Health approved plans for extension sewers.

Md., Cumberland—See item under "Streets and Roads."

Fla., Arcadia—City to sell $21,000 sewer bonds Nov. 10. Cravens & Kimmel, Parker Bldg., Engr. Noted Sept. 14.

Fla., St. Cloud—See item under "Water-Works."

Ala., Birmingham—City plans 15,000 lin.ft. of 8-in. T. C. pipe with necessary manholes and Y's in vicinity 12th St. and Ave. E. About $14,000. J. Kendrick, City Engr.

La., Bogalusa—See item under "Water-Works."

Ky., Harrodsburg—City plans sanitary sewer in Chestnut St.

Ohio, Cincinnati—F. S. Krug, City Engr., estimates cost of sewer in Baymiller St. from Front St. to Ohio River at $13,890.

Ohio, Cincinnati—City made plans for sewer in right-of-way east of Litherbury St. from Eastern Ave. to Ohio River. About $10,930. F. S. Krug, City Engr.

Ohio, Coshocton—Council passed ordinance for sanitary sewer in Adams St. A. Fisher, City Engr.

Ohio, Hamilton—Council passed resolution for sewers in Progress Ave. and Franklin St. K. E. Krieger, Clk. Council.

Ohio, Lima—City plans to enlarge sewers in Weadock Ave. C. Bryson, City Engr.

Ohio, Marion—Council passed ordinance for sanitary and storm sewer in Farming St. from Ballentine Ave. to Greenwood St. E. S. Ault, City Engr.

Ohio, Middletown—City making plans for sewer in 3rd St. About $47,500. C. E. Morrison, City Engr. Noted July 6.

Ohio, Monroe—(Official)—Bd. Education of Monroe Township Rural School Dist. receiving bids Nov. 4 for sewage disposal plant and sewage to same in connection with new grade and high school. F. S. Rusk and C. Sheets, 145 North High St., Columbus, Arch.

Ohio, Newark—Council passed ordinance for drainage sewer in Woods Ave. C. H. Wells, City Engr.

Ohio, Sandusky—Council passed ordinance for sewer in Central Ave. A. F. Johnston, City Engr.

Ohio, Uhrichsville—G. E. Arnold, Engr., New Philadelphia, making plans for joint sewage-disposal plant for Uhrichsville and Dennison.

Ohio, Youngstown—(Official)—City receiving bids Nov. 8 for sewers in Hillman St. from Indianola to Avondale Ave. F. M. Lillie, City Engr. Noted June 15.

Ind., Decatur—City plans storm sewer along north side Patterson St.

Ind., La Fayette—City made plans for lateral sewers in 3rd, 4th and 5th St. F. J. Vaughn, City Clk. H. B. Overesch, Engr.

Mich., Marshall—City receiving bids Oct. 23 for about 7,200-ft. of 10-, 12-, 15-, 18- and 24-in. storm water sewers. J. D. Wright, Marshall, Recdr.

Ill., Cairo—City receiving bids Oct. 20 for repairing sewers in Commercial Ave., about $21,500. G. Dewey, Engr.

Ill., East St. Louis—City made plans for sewer system in Winstonley Ave., about $400,000. J. M. Griffin, City Clk. Noted Aug. 24.

Ill., Lombard—City making plans for sewer system, about $100,000. W. S. Shields, 8 South Dearborn St., Chicago, Engr.

Ill., Pinckneyville—City plans to spend about $40,000 for sewers.

Wis., Columbus—City receiving bids Nov. 2 for storm sewer. B. Paekpe, Secy. Bd. Pub. Wks.

Wis., Marinette—City plans sanitary sewer in portion Marinette Ave. A. P. Hollis, City Engr.

Wis., Sturgeon Bay—City plans sewer and water systems. C. J. Sangemak, City Clk.

Wis., Wauwatosa—Council plans to spend about $10,000 for storm and sanitary sewers.

Iowa, Burlington—Council passed resolution for sewer system in Hill Dist., about $40,000. H. G. Vollmer, City Engr.

Minn., Farmington—City plans sewer system. J. F. Druar, 314 Commercial Bldg., St. Paul, Consult. Engr.

Minn., Gaylord—City receiving bids Oct. 30 for sewer and water systems. About $40,000. J. F. Druar, Engr. Noted Aug. 24.

Minn., Hutchinson—City plans sewers in Milwaukee Ave. and Brown St. F. N. Moore, City Clk.

Minn., St. Paul—City plans sewers in Jefferson Cretin sewer system No. 2. O. Claussen, City Engr.

S. D., Wessington Springs—City making plans for sewer system and disposal plant. Dakota Engineering Co., Mitchell, Engr.

Mont., Big Timber—City plans sewer system, about $40,000. Gerharz-Jaqueth Engineering Co., First National Bank Bldg., Great Falls, Engr.

Mo., Higginsville—City soon receives bids for sewers system and disposal plant. About $22,000. Burns & McDonnell, Interstate Bldg., Kansas City, Engr. Noted Oct. 12.

Tex., Mineral Wells—(Official)—City receiving bids about Oct. 25 for sewage disposal plant, about $18,000. W. W. McClendon, City Engr. Noted Sept. 28.

Tex., Sherman—Citizens voted $25,000 sewage-disposal plant bonds. S. O. Ellingson, City Engr. Noted Mar. 30.

Okla., McAlester—City plans sanitary sewer. A. H. Kendrick, Engr.

Okla., Marlow—City soon receives bids for sanitary sewers. About $25,000. Benham Engineering Co., Oklahoma, Consult. Engr.

Okla., Stroud—City soon receives bids for sewer, about $6,000. Benham Engineering Co., Colcord Bldg., Oklahoma, Engr.

Okla., Wilburton—City making surveys for sewer system. McIntosh-Walton Engineering Co., Oklahoma, Engr.

Utah, Murray—City soon receives bids for sewer system, about $15,000.

Calif., San Francisco—Bd. Pub. Wks. plans sewers in La Playa Ave. and Great Highway between Lincoln Way and Noriega St. About $40,000. M. M. O'Shaughnessy, City Engr.

Ont., Brantford—Council plans storm sewers in portions Aylmer, Wellington and Nelson St. T. H. Jones, City Engr.

Bids In and Contracts Awarded

Conn., Hartford—City let contract new sewer in Ashfield St. to DeGREGORIO BROS.

N. Y., New York—(Official)—(Bronx)—Borough rejected bids for sewers in Lyvert St.

N. Y., Piermont—Sewer Comrs. let Contract A of sewer system to C. S. EDWARDS CO., 1 Montgomery St., Jersey City, $31,935.

N. Y., Plattsburgh—(Official)—City let contract trunk sewer in Bridge St. to FITZPATRICK & SONS, Plattsburgh. Noted July 13.

N. J., Plainfield—(Official)—Council let contract storm sewer to J. M. KELLEY CONTRACTING CO., 432 Market St., Camden, about $56,997. Noted Sept. 28.

N. J., Redbank—Council let contract 2 sewers in West Redbank to MONMOUTH CONTRACTING CO., Redbank, about $16,813.

N. J., Ridgewood—(Official)—City let contract sanitary sewers in Lincoln and West End Ave., Grand View and McKinley Pl., to J. V. MEOLA, Paterson, $4,224. Noted Oct. 5.

N. J., West Hoboken—R. Emmer, Weehawken, at about $10,000, low bidder joint sewer for West Hoboken and Weehawken. Noted Sept. 28.

Penn., Flourtown—City let contract sewage-disposal plant to GREEN-STARR ENGINEERING CO.

Penn., Harrisburg—City let contract intercepting sewer in old canal and Conestoga St. to G. W. ENSIGN, Harrisburg, about $64,748.

Ohio, Cincinnati—City let contract relief sewers in Mitchell and Clinton Spring Ave. and Reading Rd. to KIRCHNER CONSTRUCTION CO., $22,684; Contract No. 5 Avondale Relief sewers, M. J. McCARTHY, $57,782.

Ohio, Cuyahoga Falls—City let contract sewer in Paune Ave. to J. C. DEVINE, Alliance, about $5,300.

Ohio, Newark—Low bidders Eddy St. sewer were Carey-Reed Co., $43,089; Congleton Construction Co., $43,160; Bell Construction Co., $43,915.

Ohio, Piqua—City let contract sewer from Wood St. to Washington Pike to BOYD & COOK, Dayton.

Ohio, Shaker Heights—(Cleveland post office)—Village let contract storm and sanitary sewers to LANESE CO., 816 Columbia Bldg., Cleveland. Noted Sept. 14.

Ohio, Tiffin—(Official)—City let contract sewers in Ohio, Clinton and Industrial Ave. to J. E. KING, Tiffin, $18,553. Noted Sept. 28.

Ohio, Warren—City let contract Highland Blvd. storm and sanitary sewers to H. POFF, Warren; Dawson St. sanitary sewer, J. McCRACKEN, Warren.

Ill., Chicago—City let contract Niles Center Sewer Outlet to T. P. GARLAND, 1453 Belle Plaine, $24,551. Noted Sept. 28.

Ill., Quincy—City let contract sewers in district between 15th and 22nd St. and Cedar and Vine St. to F. REES, about $5,974. Noted May 11.

Wis., Portage—City let contract storm sewer to THILL, MANNING-WHALEN CO., La Crosse. Noted Sept. 21.

Wis., Ripon—Council let contract sewers in Cedar and Liberty St. to M. MIERSWA & SONS.

Wis., Superior—City let contract sewer between Wisconsin and New York Ave. and Belknap and 21st St., Billings Park, to S. A. RICHES & SON, about $8,121.

Iowa, Anthon—(Official)—City let contract sanitary sewers, septic tank and filters to W. B. CARTER, Sioux City. Noted Sept. 21.

Iowa, Denison—City let contract sewers in Main St. to WARD & WEIGHTON CONSTRUCTION CO.

Iowa, Logan—(Official)—City let contract sewers to PUBLIC SERVICE CONSTRUCTION CO., Omaha, about $17,000. Noted Oct. 5.

Kan., Garden City—(Official)—City let contract sanitary sewer system to INTER-MOUNTAIN BRIDGE AND CONSTRUCTION CO., Tecumseh, Neb., about $48,871. Noted Oct. 5.

Mont., Helena—City let contract sewers in Garfield and Flowerree St. to ADIMI BROS.

Mo., Kansas City—City let contract sewers in Dist. No. 360, Div. No. 5, to L. KOEHLER, Produce Exchange Bank Bldg., about $44,776.

Sewers (Continued)

Mo., Slater—City let contract sewers to S. MacDONALD, Moberly, about $10,364.

Tex., Houston—Low bidders storm sewers on West Main St. were F. C. Youmans Construction Co., Houston, $10,187; Houston Construction Co., Houston, $10,338; Hunter & Hunter, Houston, $10,348.

Tex., Sweetwater—City let contract sewer system and disposal plant to J. H. MEYER, Sweetwater, about $40,000. Noted June 1.

Calif., Richmond—City let contract sewers to RAVEN CO., 909 Macdonald Ave.

Calif., San Rafael—City let contract sewers to BAKER & MARTIN, 509 Sheldon Bldg., San Francisco, about $9,370.

Ont., Chatham—Council to lay 12-in. sewer in Grey St. by day labor. W. A. Hammond, Chn. Bd. Wks.

Ont., Pembroke—Council let contract storm sewers to H. J. BEATTY, William St., about $10,000.

GARBAGE

Proposed Work

Tex., Ballinger—City plans incinerator. E. R. Walker, City Health Officer.

Tex., Brady—City plans to install incinerator. F. Y. Jackson, Secy.

Ont., Sarnia—City plans to install incinerator. J. A. Baird, City Engr.

STREETS AND ROADS

Proposed Work

Mass., Webster—Chamber of Commerce plans 80-ft. boulevard from School St. to Thompson, via Myrtle Ave.

Conn., Enfield—Town made appropriation of $25,000 for highways and repairs.

N. Y., New York—(Bronx)—D. Mathewson, Borough Pres., receiving bids Oct. 24 for improving portion West 238th St.

N. Y., New York—(Brooklyn)—L. H. Pounds, Borough Pres., receiving bids Oct. 26 for repaving portion Ashland Pl., Bay 34th and 58th St.

N. Y., White Plains—City plans to curb and pave portion Mamaroneck Ave., concrete, about $5,000. G. R. Bryne, Engr.

N. J., Atlantic City—(Official)—Bd. Chosen Freeholders receiving bids Nov. 4 for road work. A. H. Nelson, County Engr. (See adv.)

N. J., Bayonne—City receives bids until Oct. 24 for 5,100 sq.yd. asphalt pavement. Walter Clarkson, City Engr.

N. J., Camden—Bd. Freeholders of Camden County soon receives bids for paving about 6 mi. Cedar Brook Rd., about $30,000. J. Albertson. Camden, County Engr.

N. J., East Orange—Council passed ordinance to improve North Walnut and Lawrence St., telford; Washington St., wood block or asphalt. W. D. Welligerod City Engr.

N. J., Flemington—Bd. Freeholders of Hunterdon County plans to macadamize road from Croton to Quakertown. Address Clk., Flemington.

N. J., Keyport—Bd. Freeholders of Monmouth County making plans for rebuilding road from Keyport to Red Bank, about $65,000. G. D. Cooper, 120 Broad St., Red Bank, Engr.

N. J., Plainfield—Bd. Freeholders plan to improve Park Ave. Address Clk., Plainfield.

Penn., Connellsville—City plans to repave portion Main St. C. F. Hirst, City Engr.

Penn., Larksville—(Wilkes-Barre post office)—Borough election Nov. 7 to vote on $130,000 paving bonds. F. Butts, Miners' Bank Bldg., Wilkes-Barre, Engr.

Penn., New Eagle—Borough plans to spend $20,000 for paving. A. L. McDicker, Monongahela, Engr.

Penn., Oberlin—Swatara Township Comrs. plan to pave Main St., about $6,000.

Penn., Philadelphia—City making plans for improving Northeast Blvd. about $500,000. C. Albright, City Engr.

Penn., Scranton—Council passed ordinance to pave portion Vine and Olive St. W. Schunck, City Engr.

Penn., South Fork—City soon receives bids for grading, paving and curbing Center St., about $7,000. C. F. Collins Co., Johnstown Engr.

Penn., Wilkes-Barre—City making plans for paving and curbing Beach, Sturdevant, Carlisle and Alexander St., asphalt. B. K. Finch, Engr.

Del., Milford—City plans to pave East and West Front St., brick or bituminous, about $6,000. A. Ross, Engr.

Del., Wilmington—State Highway Comn. New County Bldg., receiving bids Oct. 24 resurfacing portion Concord Turnpike. James Wilson, Wilmington, State Highway Comr. Noted May 18.

Md., Cumberland—Citizens voted $500,000 bonds for street improvements and sewers. R. L| Rizer, City Engr.

Va., Bedford City—Bedford County plans to spend about $100,000 for road work, Central Dist. S M. Bolling, Bedford City, Clk.

Va., Bedford—Bedford County to sell $75,000 road bonds Oct. 23. Address County Clk., Bedford. Noted July 6.

Va., Norfolk—City plans to pave Allegan St.

Va., Danville—City plans to pave North and South Main St. About $20,000.

W. Va., Logan—Logan County receiving bids Nov. 11 for 2-mi. highway. R. M. Wilson, Logan, County Rd. Engr.

N. C., Durham—City plans to pave Buchanan Rd. with sheet asphalt. H. W. Kueffner, City Engr.

S. C., Florence—(Official)—City received bids grading portion South Church St. from Atlantic Bitulithic Co. and Simmons-Mayrant Co., both of Charleston. Noted Aug. 31.

S. C., Greenville—(Official)—City receives bids about Dec. 15 for paving and sidewalks, about $130 000. W. F. B. Haynsworth, City Engr. Noted Oct. 5.

Ga., Atlanta—Fulton County receiving bids Oct. 28 for 12,000 yd. paving on Virginia Ave., 10,000 sy.yd. paving on 10th St. and 16,000 yd. gutter, brick, concrete, bitulithic, etc. C. M. Holland, 507 Court House, Pur. Agt. Noted Oct. 12.

Fla., Arcadia—City to sell $90,000 street improvement bonds Nov. 10. Noted Sept. 14.

Fla., Ft. Myers—Lee County to vote Nov. 21 on $190,000 bonds for 63 mi. hard-surfaced roads. Address County Clk., Ft. Myers.

Fla., St. Cloud—(Official)—City receiving bids Nov. 30 for 11,000 sq.yd. paving, about $15,000. W. A. Ginn, St. Cloud, Engr.-in-Charge. Noted Aug. 10.

La., Bogalusa—See item under "Water-Works."

La., St. Francisville—West Feliciana County election Nov. 6 to vote on $67,000 road bonds. R. M. Leake, St. Francisville, Secy. Police Jury.

Tenn., Franklin—Williams County plans election to vote on $125,000 road bonds. J. B. Truett, Franklin, County Clk.

Ky., Hopkinsville—(Official)—Christian County rejected bids for resurfacing Sect. 8 of Julien Rd. and Sect. 9 of Gracey Rd. New bids. L. J. Harris, Hopkinsville, County Clk.

Ohio, Akron—Summit County soon receives bids for 21,900 sq.yd. brick paving in Stow-Tallmadge Rd. U. G. High, Akron, County Clk. Noted Sept. 21.

Ohio, Bellaire—City plans to grade, pave and curb Spruce and Vine St., brick. A. J. Norton, Engr.

Ohio, Bexley—(Columbus post office)—Village election Nov. 7 to vote on $14,000 road bonds. Jennings, Lawrence & Lindsay, 509 Hartman Bldg., Engr.

Ohio, Boulder—City soon lets contracts for paving 13 streets, rein.-con. O. P. Clark, City Clk.

Ohio, Coshocton—City to sell $10,000 bonds for paving 15th St. Oct. 30. H. Gamble, City Audr.

Ohio, Defiance—Council passed resolution to improve 1st St. E. S. Bronson, Mayor.

Ohio, Dover—City election Nov. 7 to vote on $50,000 paving bonds. G. E. Arnold, City Engr.

Ohio, East Liverpool—Council passed ordinance for grading and culverts on Drexel Ave., about $20,000. J. C. Kelly, Engr.

Ohio, Fostoria—Bids received paving portion Union St. and Myers Ave. from Marsmen & Green, Grand Rapids, Mich., and Modern Construction Co., Fremont. Noted Aug. 10.

Ohio, Fremont—Sandusky County received low bid road in Madison Township from F. W. Foos, about $11,800.

Ohio, Geneva—Ashtabula County plans to pave portion North Ridge Rd. Address County Clk., Jefferson.

Ohio, New Lexington—Perry and Fairfield Counties, New Lexington, receiving bids Oct. 26 for improving about 17 mi. road, $105,000. Address County Clk., New Lexington.

Ohio, Lisbon—Columbiana County receives bids in about 30 days for waterbound macadam roads in Hanover, Perry, Center and Unity Townships. About $103,889. Address County Clk., Lisbon.

Ohio, London—Madison County receiving bids about Nov. 1 for 2¾ mi. waterbound macadam road in Paint Township. A. Blacker, London, Audr. J. Asher, London, Audr.

Ohio, Marietta—City receiving bids about Nov. 1 for 1 mi. concrete paving and grading in alley between 4th and 5th St. and 1 mi. brick paving, stone curb, castings, etc., in Mulberry St. E. Gates, City Engr. Noted Aug. 24.

Ohio, Marysville—City plans to pave portion Elwood Ave., brick. S. B. Harvey, Engr.

Ohio, Massillon—Council passed ordinance to improve Pine, West and Erie St. H. McYost, City Engr.

Ohio, Norwood—City receives bids about Nov. 1 for paving Ida St. J. G. Schmidt, City Engr.

Ohio, Painesville—Lake County plans to pave Richmond Rd. H. P. Cummings, Painevillem County, Engr.

Ohio, Portsmouth—City passed ordinance to pave Kendall Ave., brick. P. G. Harper, City Engr.

Ohio, Sidney—City receives bids about Jan. 1 for paving various streets, about 6 mi. T. Blake, North Main St., Engr. Noted Sept. 14.

Ohio, Toledo—Lucas County plans 4 mi. concrete paving from Maumee to Waterville. C. Rood, Columbus, Engr.

Ohio, Toledo—Lucas County receives bids about Oct. 26 for paving Michigan Ave., Adams Township. C. Rood, Toledo, Engr. Noted May 25.

Ohio, Toledo—City plans to improve portion Dorr St. H. McKechnie, City Engr.

Ohio, Youngstown—(Official)—City receiving bids Nov. 8 for paving portion Erie St., brick. B. A. Parrock, Dir. Pub. Ser. F. M. Lillie, City Engr. Noted May 18.

Ohio, Youngstown—(Official)—City receiving bids Nov. 8 for paving portion Cassius Ave., brick. H. A. Parrock, Dir. Pub. Ser. F. M. Lillie, City Engr. Noted Oct. 5.

Ind., Columbia City—Whitley County Comrs. receiving bids Nov. 11 for gravel roads. T. A. McLaughlin, Columbia City, Audr.

Ind., Corydon—Harrison County receiving bids Nov. 8 for gravel or macadam road on line between Taylor and Boone Townships. J. L. O'Bannon, Corydon, Audr.

Ind., Fowler—Benton County did not let contracts for roads in Gilboa Township. W. Mankey, Fowler, Audr. Noted Sept. 14.

Ind., Laporte—Laporte County receiving bids Nov. 9 for road in Dewey Township. H. A Hausheer, Laporte, Audr.

Ind., Laporte—Laporte County Comrs. receiving bids Nov. 9 for road in Clinton Township. F. A. Hausheer, Laporte, Audr.

Ind., Logansport—City soon lets contract for paving Broadway, 1st and 2d St.

Ind., Rensselaer—Jasper County receiving bids Nov. 7 for stone road in Jordan Township and stone road in Jordan and Marion Townships. J. P. Hammond, Rensselaer, Audr.

Ind., Shelbyville—Shelby County Comrs. receiving bids Nov. 8 for gravel roads in Moral Township. F. W. Fagel, Shelbyville, Audr.

Ind., South Bend—F. J. Anderson, City Engr. estimates cost of resurfacing Laporte Ave. at $6,100.

Ind., Winchester—Randolph County Comrs. receiving bids Nov. 9 for concrete road in Ward and Jackson Townships. C. E. Tillson, Winchester, Audr.

Mich., Menominee—City plans to spend abo $17,227 for paving various streets. T. Halse Engr.

Mich., Zeeland—(Official)—City making pla for paving Main, Central and Church St., about $80,000. L. A. Boulay Co., 1248-51 Nichola Bldg., Toledo, Engr.

Ill., Aurora—Council passed ordinance to pave portion Illinois Ave. M. J. Tarble, City Engr.

Ill., East St. Louis—City plans to spend about $430,000 for wood-block paving. E. F. Harper, City Engr.

Ill., Freeport—City made plans for paving in First Ward, about $12,000. C. S. Hepner, City Engr.

Ill., Kewanee—Henry County made preliminary surveys for Kewanee-Cambridge State-Aid Rd. State appropriated $26,000 toward cost. J. H. Reed, Kewanee, County Supt. Highways.

Ill., Lisbon—Council passed ordinance to pave portion Illinois Ave. M. J. Tarble, City Engr.

Ill., Lyons—Village receives bids about Feb. 1 for paving Prospect and Amelia Ave. and Center St. concrete. E. Hancock, 2047 Ogden Ave., Chicago, Engr.

Ill., McCarroll—City plans to spend about $40,000 for brick paving. C. S. Hepner, Freeport, Engr.

Ill., Oak Park—City plans to pave alley from Lake to Cedar St. and from Harlem to Manson St., brick. W. F. Sargent, Engr.

Ill., Rockford—Winnebago County plans election to vote on $1,500,000 road bonds. Address Clk., Rockford.

Wis., Janesville—Bd. Pub. Wks. receiving bids Oct. 28 for curbing and guttering 8 streets. C. V. Kerch, City Engr.

Wis., Oconomowoc—City plans to pave various streets. A. O. Hansen, City Clk.

Wis., Princeton—City plans to pave about 7,000 sq.yd. brick. H. H. Rimtle, City Clk.

Iowa, Des Moines—City plans to pave portion Arthur Ave. Karl Kastberg, City Engr.

Minn., St. Paul—(Official)—City rejected bids for grading Madison St. New bids Oct. 30. Noted Sept. 14.

Minn., St. Paul—City voted $124,850 for wood block paving. O. Claussen, City Engr.

Minn., St. Paul—Council plans to pave portion Prior Ave., $24,926, and Minnehaha St., $10,768 O. Claussen, City Engr.

Kan., Atchison—(Official)—City to receive bids about Mar. 1 for paving portion 6th St. F. A Altman, City Engr. Noted Oct. 5.

Kan., Winfield—City plans to pave John and Blandon St. W. C. Hall, City Clk.

S. D., Brookings—City plans to curb and pave number of streets. C. A. Trimmer, Madison Engr.

S. D., Watertown—Codington County plans to spend about $10,000 for road work. J. S. Johnson, Watertown, Audr.

Mont., Butte—City soon lets contracts for improvement work in Dists. Nos. 199, 200, 201, 202, 203, 204, 206 and 214. J. J. Armstrong, City Engr.

Streets and Roads (Continued)

Mo., Moberly—City plans to pave portion Lyons St. J. F. Curry, City Clk.

Mo., Springfield—City plans to repave portion Main St., brick. O. D. Chrisman, City Engr.

Mo., Stanberry—City will not let contract for paving until spring. Black & Veatch, Interstate Bldg., Kansas City, Engr. Noted Aug. 31.

Ark., Newport—Comrs. Rd. Impvt. Dist. No. 1 plan to improve 10⅛-mi. road. About $50,000. R. D. Wilmans, Comr.

Tex., Corpus Christi—(Official)—City receiving bids Oct. 27 for paving. About $65,000. H. A. Stevens, City Engr. Noted Sept. 28.

Tex., Dallas—Dallas County election Nov. 7 to vote on $500,000 road bonds. Address County Clk., Dallas.

Tex., Denton—Denton County election Nov. 15 to vote on $900,000 road bonds. Address County Clk., Denton.

Tex., Lufkin—Angelina County plans $50,000 bond issue for road work. T. L. Dunn, Lufkin, County Clk. Noted June 29.

Tex., Marble Falls—City plans election to vote on $100,000 road bonds.

Tex., Quitman—Wood County, Rd. Dist. No. 6, voted $150,000 road bonds. Address County Clk., Quitman. Noted Sept. 28.

Tex., Victoria—City plans to pave business district.

Okla., Bartlesville—Washington County plans election in December to vote on $600,000 road bonds. Address County Clk., Bartlesville. Noted Sept. 14.

Okla., Clinton—City soon receives bids for paving in business district, about $80,000. Benham Engineering Co., Colcord Bldg., Oklahoma, Engr. Noted Sept. 14.

Okla., Holdenville—City making plans for paving various streets. Mackintosh-Walton Engineering Co., 1023 State National Bank Bldg., Oklahoma, Engr.

Okla., Lawton—Comanche County plans election to vote on $225,000 road bonds. Address Clk., Lawton.

Okla., Muskogee—City soon receives bids for resurfacing various streets, asphalt. H. H. White, Engr.

Okla., Oklahoma—City soon receives bids for paving portions 32d, 37th, 11th, 12th, 13th, 14th St., Lincoln Blvd. and North Broadway, asphalt. G. V. McClure, City Engr.

Okla., Oklahoma—Oklahoma County making plans for hardsurfacing about 6 mi. road. H. Adams, Oklahoma, Engr.

Okla., Tulsa—City plans to resurface viaduct at 3d and Lawton St. H. H. Wyss, City Engr.

Idaho, Pocatello—Council passed ordinance to pave North Main St., asphalt, wood block or bitulithic, about $69,679; grading, graveling walks, etc., on North St., about $51,848; West Bridge St., $28,968. J. H. Giles, City Engr.

Idaho, Pocatello—(Official)—City receiving bids Oct. 26 for paving in Local Improvement Dist. No. 20 A. R. Dawson, City Clk. J. H. Giles, City Engr. (See adv.)

Utah, Ogden—City plans boulevard along Ogden River. J. M. Tracy, City Engr.

Utah, Salt Lake City—City receiving bids Oct. 24 for sidewalks. S. Q. Cannon, City Engr.

Wash., Bellingham—City soon lets contract for paving G St., about $15,000. W. H. North, City Engr.

Wash., Bothell—City plans to pave various streets. C. H. Reeves, Henry Bldg., Seattle, Engr.

Wash., Spokane—Spokane County plans to spend about $197,500 for highways during 1917. J. W. Strack, Spokane, County Engr.

Wash., Tacoma—City making plans for paving Dock St., brick or stone. W. C. Raleigh, City Engr.

Ore., Fossil—Wheeler County plans election in November to vote on $800,000 road bonds. Address County Clk., Fossil.

Calif., Calexico—City plans to pave various streets.

Calif., Fresno—Council plans to pave portion Tulare Ave. B. E. Cronkite, City Engr.

Calif., Modesto—Stanislaus County election Nov. 7 to vote on $1,482,000 road bonds. E. H. Annear, Modesto, County Engr. Noted Aug. 10.

Calif., Salinas—County receiving bids Nov. 6 for grading part of Watsonville-San Juan Highway. T. P. Joy, Salinas, County Clk.

Calif., San Diego—Council plans to improve portion Lewis St. and Ft. Stockton. Dr. G. Cromwell, City Engr.

Ont., Brantford—Council passed ordinance to pave northern end Lorne Crescent. T. H. Jones, City Engr.

Ont., Galt—Council plans to pave Main and Water St. J. McCartney, Clk.

Ont., Hamilton—Council plans to pave Fairview Ave., asphalt, about $5,000. E. R. Gray, City Engr.

Ont., Hamilton—Council plans cement sidewalks on Elm, Strachan and Province St. E. R. Gray, City Engr.

Ont., Ottawa—City plans to pave portion Booth St. About $34,694. N. H. Lett, City Clk.

Bids In and Contracts Awarded

Mass., Boston—City let contract paving various streets in Brighton, Dorchester, East Boston and West Roxbury Dists. to CENTRAL CONSTRUCTION CO. 228 Southampton St., about $173,187. Noted Oct. 12.

Mass., Boston—City let contracts paving various streets in Brighton, Dorchester, Roxbury and West Roxbury Dists. to M. DE MATTEO, 146 Dudley Ave., Roslindale, about $61,242. Noted Oct. 12.

Mass., Gloucester—State Highway Comn. let contract highway to PERINNI CONSTRUCTION CO., Ashland, about $17,700.

Mass., Marlboro—City rejected bids for resurfacing Highland St. Noted July 27.

Mass., Pelham—State Highway Comn. let contract highway to CORDNER & MONTAGUE, Springfield, $13,223.

Mass., Somerville—City let contract paving Union Sq. to HASSAM PAVING CO., 390 Main St., Worcester. Noted Aug. 10.

Mass., Southbridge—City let contract road along Dudley River to T. McGOVERN, about $15,000.

N. Y., Amsterdam—City let contract improving portion East Main St. to TROY PAVING CO., Troy, about $4,355. Noted Oct. 5.

N. Y., New York—(Brooklyn)—(Official)—Borough let contracts paving to: Cranford Co., 52 9th Ave., 85th St., $5,100; 15th Ave., $4,676; UVALDE ASPHALT PAVING CO., 1 Broadway, Manhattan, Ocean Ave., $24,650; GRIMM CONSTRUCTION CO., Snyder Ave., $6,290; B. TURECAMO, 24th Ave., $6,111. Noted Oct. 5.

N. Y., New York—(Brooklyn)—Borough Pres. received bids for improving portion Maspeth Ave. from Rosenthal Engineering and Contracting Co., 65 Hooper St., Brooklyn, $7,578; Newman & Carey Co., $7,622; F. J. Gallagher, $9,459. Noted Oct. 5.

N. Y., Peekskill—City let contract paving Washington and South St. and Welcher Ave. to H. B. SPROUL, Flatiron Bldg.

N. J., Belmar—(Official)—Council let contract improving portion F St. to JENNINGS-LAUGHLIN CO., Asbury Park, about $27,602. Noted Sept. 14.

N. J., Belvidere—(Official)—Warren County let contract improving Sect. 1, Hope-Bridgeville Rd., to SMITH BROS. & CO., Hackettstown. Noted Sept. 21.

N. J., Cliffside Park—Council let contract improving Know Ave. to BERGEN CONTRACTING CO., Cliffside Park, about $10,000.

N. J., Elizabeth—(Official)—City let contract paving to CONTINENTAL PUBLIC WORKS CO., New York, about $45,000. Noted Sept. 21.

N. J., Hackensack—Bd. Chosen Freeholders Bergen County let contract resurfacing roads to G. C. BENNETT, Magnolia Ave., Park Ridge, about $5,500.

N. J., Montclair—Town let contract paving and curbing South Fullerton Ave. to STANDARD BITULITHIC CO., 50 Church St., New York, about $26,000. Noted Sept. 28.

N. J., Montclair—City let contract curbing and paving Stonebridge Rd. to D. FISSCO, Glen Ridge Ave., Glen Ridge.

N. J., Montclair—City let contract paving and curbing Grant St. to STANDARD BITULITHIC CO., 50 Church St., New York, $4,777.

N. J., Newark—City rejected bids for paving portion Jefferson St. Noted Sept. 7.

N. J., Perth Amboy—City let contract curbing and grading 1st, Paterson and Lewis St. to GRAHAM & McKEON, 264 Smith St.

N. J., Telford—Bergen County let contract road work to G. C. BENNETT, Magnolia Ave., Park Ridge, about $6,900.

Penn., Allentown—City let contract paving portions North 7th, North 6th and Linden St. to BARBER ASPHALT PAVING CO., Land Title Bldg., Philadelphia, about $53,138. Noted Oct. 12.

Penn., Altoona—City let contract paving various strets to LOOMIS & KING, Central Trust Bldg.

Penn., Archbald—City let contract paving road between Archbald and Eynon and entire Main St. of Eynon to SWEENEY BROS., Scranton, $1.78 per sq.yd.

Penn., East Vandergrift—City let contract paving to DUSTER CONTRACTING CO., about $16,000.

Penn., Farrell—Shenango Land Co., 707 Broadway, let contract paving to W. C. McINTYRE & SONS, Sharon, about $32,000.

Penn., Hopewell—City let contract paving to D. ALEXANDER, Mechanics Bldg., about $15,000.

Penn., Norwood—Prospect Park Council let contract paving 10th, 11th and 13th Ave. and Amosland Rd. to UNION PAVING CO., Philadelphia, and J. L. GALLOWAY, Norwood. About $35,000.

Penn., Philadelphia—City let contract paving and repaving various streets to M. & J. McHUGH, 892 North Market St., about $10,000.

Penn., West View—(Official)—(Pittsburgh post office)—City let contract improving portion Chalfonte Ave. to AUSTIN & MATTHEWS, about $4,994. Noted

Md., Baltimore—City let contract paving portion Gay St. to BALTIMORE ASPHALT BLOCK AND TILE CO., Monroe and Lorman St. Noted Oct. 12.

Md., Baltimore—City let contract paving portion Lexington and Etting St. to P. FLANIGAN & SONS, Harford Ave. and 25th St.

Md., Takoma Park—(Washington post office)—City let contract roads, curbs and sidewalks to W. F. BRENNINGER CO., 141 Q St., N. W., Washington, about $8,000.

Va., Petersburg—City let contract 10,000 sq.yd. paving to J. W. TALLEY and R. H. VARNELL. E. P. Goodwyn, Com. Clk.

W. Va., Harrisville—Ritchie County let contract 19 mi. brick road in Clay Dist. to WINTON & CO., 290 Broadway, New York, about $240,000. Noted June 29.

W. Va., Lewisburg—Greenbrier County let contract road work in White Sulphur Dist. to WEAVER & GLOVER, Charleston. Noted Mar. 23.

W. Va., Lewisburg—Greenbrier County let contract road work in Lewisburg Dist. to SANDS-KLINE CO., Morristown, N. J. Noted Mar. 23.

W. Va., Stealey Heights—(Clarksburg post office)—City let contract improving Stealey and Duncan Ave., Davis St. and alley between Hartland and Alexander Ave. to H. W. MITCHELL, 316 North Ave., Clarksburg, about $20,500.

W. Va., White Sulphur Springs—Greenbrier County, Lewisburg, let contract improving Kanawha Turnpike on James River to WEAVER & GLOVER, Charleston.

Fla., Jacksonville—(Official)—City let contract 1,974 sq.yd. brick paving to WILSON CONSTRUCTION CO., Jacksonville; 3,849 sq.yd. asphalt paving to BRYSON BROS. Noted Sept. 14.

Fla., Starke—City let contract 30,000 sq.yd. paving to R. L. DAVIS, Tampa.

Miss., De Kalb—(Official)—County let contract roads in Dist. No. 1 to CUNNINGHAM & TATE, Brooksville, $62,487. Noted Sept. 28.

Miss., Grenada—(Official)—Grenada County let contract 50 mi. sand clay roads to be part of Jefferson Davis Highway to MORRISON CONSTRUCTION CO., Greenwood, $53,822. Noted Sept. 21.

La., Alexandria—(Official)—Rapids Parish, Rd. Dist. No. 6, let contract about 17 mi. gravel road to SMITH BROS., Coushatta, $42,688. Noted Sept. 28.

Ky., Frankfort—Nicholas County, Carlisle, let contract improving 2½ mi. Rd. No. 91 to D. S. B. HAGARD, Winchester, about $5,000.

Ky., Hopkinsville—(Official)—Christian County let contract resurfacing Sect. 7 of Greenville Rd. to MONTGOMERY, PERKINS & CO., Hopkinsville, about $28,338. Noted Sept. 28.

Ky., Newport—City let contract sidewalks to ADER CONSTRUCTION CO., 6th and Saratoga St.

Ohio, Akron—Summit County let contract improving Wooster Rd. to J. M. DAVIDSON, $53,663. Noted Sept. 28.

Ohio, Bowling Green—City let contract paving portion Court St. to GRAY BROS., Bowling Green. Noted Sept. 21.

Ohio, Canton—City let contract paving, curbing and sewering 4th St., S. E., to TURNBULL BROS., Canton, about $76,579.

Ohio, Canton—Starke County let contract improving Pigeon Run Rd. to P. DIEFFENBACHER, Massillon, about $21,266.

Ohio, Cincinnati—Bd. Control let contract paving portion Cora Ave. to HENKEL & SULLIVAN, Mercantile Library Bldg., $13,427. Noted Sept. 28.

Ohio, Columbus—City let contract paving Burt St. alley to G. GEIGLE & SON, 52 East Fulton St., $4,802.

Ohio, Columbus—Franklin County let contract paving Fairview Ave. Rd. to D. E. SULLIVAN & SON, Ohio Bldg. Noted Sept. 14.

Ohio, Columbus—Franklin County let contract improving Clouse Rd., Plain Township, to T. J. McKIM, 750 East 2nd St., about $49,377.

Ohio, Columbus—City let contract paving subways under tracks of Pennsylvania and Cleveland, Cincinnati, Chicago & St. Louis Ry. in East 11th and 17th Ave. to G. GEIGLE & SON, about $32 000.

Ohio, Columbus—Franklin County let contract Indianola Ave. Extension to F. J. BENTZ, 2008 Sullivan Ave., about $16,289. Noted Sept. 14.

Ohio, Dayton—City let contract paving portion Bacon St. to GEIGER & FINKE. F. Eichelberger, City Engr. Noted July 6.

Ohio, Elyria—Lorain County received low bid Cleveland-Sandusky Highway from HART & KEMP, Elyria, about $158,155.

Ohio, Findlay—City let contract improving portion South Cory St. to JOHNSON CONSTRUCTION CO., 115 South Dearborn St., Chicago. Noted Aug. 31.

Ohio, Fostoria—City let contract paving and curbing Union St. to MODERN CONSTRUCTION CO., Fremont.

Ohio, Lakewood—City let contract to CLEVELAND-TRINIDAD PAVING CO., 420 Lakeside Ave., Cleveland, Rosalie Ave., $4,983, Abbleshire Ave., $4,000.

Ohio, London—City let contract street improvements to E. DOOLEY.

Streets and **Roads** *(Continued)*

Ohio, McArthur—Vinton County let contract improving Sect. G of McArthur-Athens Rd., Madison Township, to W. J. KEENER and L. S. KING, McArthur, $17,800.

Ohio, Mt. Gilead—City let contract improving South Mulberry St. and Ohio Ave. to S. T. KNIGHT, 487 Oak St., about $13,257 and $5,981 respectively.

Ohio, Newton Falls—County let contract 2-mi. macadam road between Lordstown and Newton Falls to McDERMOTT & HANNON, Niles, about $17,223.

Ohio, Reading—City let contract improving Morrow Ave. to J. RYAN & CO., Lockland.

Ohio, Rudolph—Town let contract road work in Liberty Township to A. P. GUTHRIE, Cygnet, $15,450.

Ohio, Sandusky—Erie County let contract grading and paving Shadden Rd., Oxford Township, to HORN & MILLER, Bellevue; Columbus and Sandusky Rd., Croton Township, BUCKEYE ENGINEERING CO., Norwalk; J. E. Wetjen Rd. extending from Washington-Madison Township line, east on east and west center line, Sect. 7 to east quarter part of Sect. 7, H. HUGHES, Gibsonburg.

Ohio, Sebring—(Official)—Contract let to G. B. HERRING & SON, Mansfield, $53,465, for curbing and paving portion Oregon and Indiana Ave. and 18th St.

Ohio, Waterville—City let contract paving Main and 2nd St. to G. ZELLERS, about $4,461.

Ind., Gary—City let contract paving Alley No. 1 to J. SENSIBAR, about $6,921.

Ind., Goshen—Elkhart County let contract Sterling Ave. Rd., Concord Township, to NORTHERN CONSTRUCTION CO., Elkhart, about $12,000. Noted Sept. 14.

Ind., Indianapolis—(Official)—Marion County let contract road work Franklin Township to BOONE CONSTRUCTION CO., Lebanon, about $22,875. Noted Sept. 28.

Ind., Indianapolis—Union Asphalt Construction Co., American Central Life Bldg., only bidder for paving portions Denny St. and Eastern Ave.; Marion County Construction Co., 1600 South West St., for paving Belmont Ave.

Ind., Jeffersonville—Clark County let contract road in Jeffersonville Township to J. GRANINGER, R. F. D., Clarksville. Noted Sept. 14.

Ind., Kendallville—City let contract paving portion Garden St. to C. D. COIL.

Ind., Lafayette—Tippecanoe County let contracts roads in Washington, Perry and Shelby Townships to B. OILAR, Battle Ground, $7,400; OILAR & PARLOW, Lafayette, $4,548; A. PETERSON, West Point, $9,238. Noted Sept. 28.

Ind., Michigan City—City let contract paving Union St. to HOBSON-DAVIS CONSTRUCTION CO., Gary.

Ind., Michigan City—City let contract resurfacing 7th St. to WESTERN CONSTRUCTION CO., Lafayette; 11th St., HODSON-DAVID CONSTRUCTION CO., Gary.

Ind., Rensselaer—Jasper County received no bids for roads in Marion or Jordan Township. Noted Sept. 28.

Ind., Rockville—Parke County let contract A. R. Spencer Rd., Green Township, to W. G. CARTY, about $7,175.

Mich., Grand Rapids—Decker & Jean, 85 Monroe St., let contract improving Cambridge Blvd., East Grand Rapids, to VANDEWEEL BROS., Association of Commerce Bldg., about $10,000.

Ill., Chicago—Cook County let contract road work in Schaumberg Township to ECLIPSE CONSTRUCTION CO., Winnetka, about $63,857.

Ill., Dixon—Lee County let contract road work to ATKINSON & FISHEL. Noted Mar. 30.

Ill., Freeport—City let contract paving various streets to GUND-GRAHAM CO., 56 Taylor Ave., $11,747. Noted July 20.

Ill., Oak Park—City let contract paving portion Fillmore St. to H. G. GOELITZ CO., 810 North Blvd., Chicago. Noted Sept. 14.

Ill., Springfield—City let contract improving South 9th St. to J. E. BRETZ.

Ill., Springfield—(Official)—State Highway Dept. let contracts road work as follows: Henderson County, Sect. "A", E. A. LORD CONSTRUCTION CO., Monmouth, $4,295; Scott County, Sects. "D and E", CAMERON-JOYCE & CO., Keokuk, Iowa, $12 362.

Ill., Springfield—(Official)—State Highway Dept. let contracts road work as follows: Lawrence County, Sect. "C", S. DEES & CO., Robinson, $9,987; Sangamon County Sect. "H", H. NELCH & SON, Springfield, $13,238, Sect. "J", J. E. BRETZ, Springfield, $13,162; Madison County, Sect. "D", G. R. HYTEN, Edwardsville, $8,100; Montgomery County, Sect. "C and E", CAMERON-JOYCE & CO., Keokuk, Iowa, about $14,000.

Ill., Waukegan—Waukegan Improvement Co. submitted lowest bid, $15,156, for paving 10th St.

Wis., Antigo—Bd. Pub. Wks. let contract cement sidewalks to A. JOHNSON.

Iowa, Mason City—(Official)—City let contract improving 1st St., N., and Crescent Dr. to BRYANT ASPHALT PAVING CO., Waterloo.

Kan., Garnett—(Official)—City let contract paving various streets to A. L. COOK, Ottawa, asphalt, $12,733; brick, $14,088. Noted Mar. 9.

Kan., Iowa—City let contract paving 5 blocks to KAW PAVING CO., Topeka.

Neb., Omaha—Douglas County let contracts road work to WILLIAMS & SON, Omaha, and R. CONDON, 3923 South 26th St. Noted May 4.

Neb., Omaha—City let contract grading portion 35th St. to R. CONDON, 3923 South 26th St.

S. D., Huron—City let contracts paving to C. H. ATKINSON, Watertown, about $25,071, and F. JEHN CONSTRUCTION CO., Huron, $5,144. Noted July 27.

Mo., Clinton—City let contract paving South Main St. to W. F. HALL, 50c. cu.yd., grading, 58c. ft. curbing and guttering.

Mo., Kansas City—City let contract paving 63rd St. to W. C. MULLIUR, Sharp Bldg., 11th and Walnut St., Kansas City, about $1.18 per sq.yd.

Mo., St. Joseph—(Official)—City let contract paving portion 10th St. to METROPOLITAN PAVING CO., St. Joseph, $23,056. Noted Oct. 5.

Tex., Dallas—City let contracts paving as follows: East Side Ave., VIBROLITHIC CONSTRUCTION CO., $15,297; Victor St., STANDARD ENGINEERING CO., $13,755; Main St., TEXAS BITULITHIC CO., $18,267.

Okla., Tulsa—Tulsa County let contract 3 mi. paving to ATLAS CONSTRUCTION CO., Bank of Commerce Bldg., $20,705.

Okla., Tulsa—City let contract paving 21st St. to PARKER-WASHINGTON CO., about $15,991.

Colo., Derby—City let contract 8 mi. Omaha-Lincoln-Denver automobile road to OSNER CONSTRUCTION CO., Denver.

Ariz., Tucson—Abrwray Construction Co., Prescott, at $64,222, low bidder Sect. A, Nogales Rd.

Wash., Seattle—King County let contract 3 mi. road between Wayne and Juanita Bridge to BARBO BROS., Bellingham, about $15,500.

Ore., Portland—City received low bid paving, concrete steps and viaduct on College St. from Oregon Independent Paving Co., 294 East Salmon St., about $20,607.

Calif., Bakersfield—Kern County let contract for Rio Bravo-Wasco Highway to G. S. BENSON & SONS, Stimson Bldg., Los Angeles, about $25,288. Noted Aug. 31.

Calif., Fairfield—Solona County let contract highway work to S. A. ABRAMS, about $14,873.

Calif., Los Angeles—Southern California Contracting Co., Title Insurance Bldg., at $52,112, low bidder scenic highway in Beverly Hills Dist., Rd. Impvt. Dist. No. 126. Noted Aug. 31.

Calif., Los Angeles—City received low bid paving portion Boyle Ave. from Los Angeles Paving Co. Noted Aug. 24.

Calif., Los Angeles—Los Angeles County let contract Harbor Truck Blvd. to WHITE & GASKILL, Long Beach, about $48,237. Noted Oct. 12.

Calif., Los Angeles—City let contract improving portion Kenmore Ave. to G. R. CURTIS, about $7 797.

Calif., Red Bluff—(Official)—Tehama County let contract improving portion Paynes Creek Rd. to J. H. WILTSEY, Red Bluff, $1 cu.yd. Noted Sept. 28.

Calif., Salinas—County let contract to B. H. BLAIR for Lucas-Peachtree highway.

Calif., Salinas—City let contract paving Geil St. to D. McCORMICK, $4,988.

Calif., Santa Cruz—Santa Cruz County to build 6 mi. highway by day labor. About $10,000.

Calif., Stockton—Council let contract paving to PAUL & CALDWELL, about $7,621.

Calif., Sunnyvale—Contract let to H. M. DAN for street improvements as follows: Macadam pavement, 6½c. sq.ft.; excavation, 30c. cu.yd.; combined concrete curb and gutter, 48c. lin.ft.

Ont., Ottawa—City let contract paving Parkdale Ave. to T. G. BRIGHAM, Ottawa.

INDUSTRIAL WORKS

Proposed Work

Mass., Boston—R. Wyner, 18 Tremont St., making plans for 1-story, 101x360-ft. auto service building, Brighton Ave. and Malvern and Gardner St., Allston. About $170,000. J. E. McLaughlin, 88 Tremont St., Arch.

Mass., Gardner—Simplex Time Recorder Co. plans to enlarge plant, about $30,000.

Mass., Springfield—P. Bess granted permit for garage at Union and Hancock St., about $30,000. Noted Oct. 5.

R. I., Riverpoint—Pawtuxet Valley Textile Co. plans addition.

R. I., Woonsocket—Fairmount Foundry Co. purchased site for foundry at 2d Ave. and Woonsocket-Pascoag R.R. Matthew Sweeney, interested.

Conn., Stamford—Baer Bros. plans addition, about $10,000.

Conn., Waterbury—Waterbury Brass and Bronze Co. plans addition to plant on East Main St.

N. Y., Bath—W. W. Jennings and R. Kizer, Towanda, Penn., plan 1-story, 160x180-ft. silk mill.

N. Y., Buffalo—Atterbury Motor Car Co., Hertel Ave., plans to rebuild plant destroyed by fire, about $20,000.

N. Y., Cobleskill—(Official)—Schoharie State School of Agriculture receiving bids Oct. 27 for dairy building. D. D. Frisbie, Pres. Bd. Trustees (See adv.)

N. Y., Le Roy—G. P. Jones, Emporium, Penn., plans plant at Le Roy for manufacture of chemicals.

N. Y., Malone—E. E. Hogle plans garage and automobile salesroom on East Main St. About $65,000.

N. Y., New York—(Bronx)—Emma C. Dressel, 2240 Grand Boulevard and Concourse, made plans for 2-story brick garage at Park Ave. and 173rd St. About $30,000. J. C. W. Ruhl, 3207 Hull Ave., Arch.

N. Y., New York—(Brooklyn)—J. C. Cavanaugh Corporation, 151 Roebling St., making plans for rebuilding factory. E. Meisinger, 394 Graham Ave., Arch.

N. Y., New York—(Manhattan)—Daniel H Jackson Co., 35 Nassau St., making plans for addition to warehouse at 140 6th Ave. M. Zipkes, 405 Lexington Ave., Arch. About $15,000.

N. Y., New York—(Manhattan)—Pine Hill Crystal Water Co., 10th Ave. and 36th St., receiving bids for 3-story, 50x94-ft. garage, 11th Ave. and 38th St. About $40,000. G. Pelham, 30 East 42nd St., Arch.

N. Y., New York—(Borough of Queens)—Globe Thread Co. plans 4-story, 150x200-ft. factory at Long Island City.

N. Y., New York—(Borough of Queens)—Rainier Motor Corporation made plans for 2 buildings, one 50x100-ft. and other 200x200-ft on edge of Flushing-College Point meadows. About $53,000. P. M. Coco, Flushing, Arch. J. T Rainier, 1649 Broadway, Manhattan, Arch.

N. Y., Rochester—Gleason Tool Works granted permit for 1-story rein.-con. addition, University Ave., about $11,000.

N. J., Mays Landing—Bethlehem Steel Corporation plans proving ground near Mays Landing. C. M. Schwab, Pres.

N. J., Newark—Rubber and Celluloid Harness Trimming Co., Hamburg Pl. Rd., granted permit for 2-story addition to plant, about $50,000.

N. J., Ridgefield Park—Bergen Paper Co. plans addition to plant on Hackensack River. About $20,000.

Penn., Coudersport—Hart-Bred Silk Co. plans new mill on North Main St.

Penn., Essington—Westinghouse Machine Co., East Pittsburgh, plans plant at Essington.

Penn., Johnstown—Buser Silk Mill plans addition.

Penn., Philadelphia—Roger & Crawford, Ontario and Janney St., plans addition to yarn mill.

Penn., Williamsport—Williamsport Candy Manufacturing Co. plans to rebuild plant destroyed by fire.

Md., Baltimore—W. F. Terry, 3900 Kate Ave., plans 4-story storage warehouse.

Md., Baltimore—Wilson & Co., 5 West Camden St., making plans for branch packing plant. C T. Bennett, Arch.

W. Va., Kenova—Basic Products Co. plans to improve and enlarge plant, about $250,000.

N. C., Asheville—Hans Rees Sons plans to rebuild tannery recently destroyed by fire with loss of $200,000.

N. C., Shelby—Olive Hosiery Co., recently incorporated with $100,000 capital stock, plans mill at South Shelby.

Ga., Macon—Bibb Manufacturing Co. plans 56x200-ft. warehouse. About $15,000.

Fla., Jacksonville—Glee Cola Co., Birmingham, Ala., plans 3-story plant at Jacksonville. Address C. L. Fulton, Birmingham.

Ala., Huntsville—Planters' Warehouse Co., recently incorporated, plans warehouse on West Clinton St., about $30,000. A. W. White, Secy and Gen. Mgr.

Ala., Talladega—Talladega Pipe and Foundry Co., recently organized, plans plant. R. W. Henderson, Pres.

La., New Iberia—Burguires Co. plans sugar refinery. About $50,000.

La., New Orleans—Lacoste Bros., Inc., plans storage building.

La., New Orleans—Morris & Co., packer, plans to enlarge its plant, about $100,000.

La., New Orleans—National Hosiery Co. plans addition.

Ky., Louisville—Louisville Provision Co. granted permit for 4-story, 48x200-ft. addition, about $40,000. Noted Aug. 24.

Ohio, Akron—Firestone Tire and Rubber Co. granted permit for 2 additions, about $105,000. Noted June 15.

Ohio, Alliance—Alliance Tire Co. increased capital stock by $500,000 and plans 3-story addition.

Ohio, Ashtabula—New York Central R.R. Lines West of Buffalo plans new steel shops at Ashtabula. G. C. Cleveland, St. Clair Ave. and West 3rd St., Cleveland, Ch. Engr.

Ohio, Bucyrus—New York Blower Co. plans 80x200-ft. factory with 2 wings. J. W. Mathis, owner.

Ohio, Camp Washington—(Cincinnati post office)—Triumph Manufacturing Co. plans warehouse, south side Arlington Ave.

Industrial Works (Continued)

Ohio, Cincinnati—Barlow Hudson Motor Car Co., Canal and Race St., plans 2-story building. J. G. Steinkamp & Bro., Arch.

Ohio, Cincinnati—Cincinnati Laundry Co. making plans for 3-story, 121x190-ft. factory, 8th and 9th St. and McLain Ave. Stegner & Hughes, Arch. L. J. Oehler, Mgr.

Ohio, Cincinnati—Jeffrey Motor Car Co., Race St., plans 1-story building. J. Schwartz, Arch.

Ohio, Cleveland—Armour & Co. plans storage house and distributing station, west side Ontario St., about $100,000.

Ohio, Cleveland—Hudson-Stuyvesant Motor Co., 2010 Euclid Ave., plans 5-story addition, about $90,000.

Ohio, Dover—Dover Manuf[illegible]g Co. plans to rebuild plant destroyed by [illegible]ith loss of $150,000.

Ohio, Findlay—Hoytsville T[illegible]nufacturing plant, recently destroyed by [illegible]ill be rebuilt.

Ohio, Lebanon—Merchants [illegible]y Manufacturing Co., recently incorpora[illegible]ns plant. C. W. Ivins and G. O. March, Leb[illegible]rested.

Ohio, Lexington—W. Cureton & [illegible]an to rebuild foundry destroyed by fire.

Ohio, Marion—Interstate Iron and Steel Co. plans to enlarge plant.

Ohio, Massillon—Massillon Foundry and Machine Co., West St., plans new plant.

Ohio, Niles—Standard Oil Co. plans tank and warehouse, Holford St.

Ohio, Portsmouth—Portsmouth-Solvay Coke Co. will be incorporated to build coke plant at Portsmouth. About $200 000. Company will be subsidiary of Semet-Solvay Co. of Columbus.

Ohio, Sandusky—Rosenbaum Bros. plans to enlarge elevator, about $250,000.

Ohio, Springfield—Springfield Coal and Ice Co. plans addition to plant, about $80,000. S. P. Harris, Mgr.

Ohio, Toledo—Toledo Alloy Steel Co., recently incorporated with $75,000 capital stock, plans plant. E. R. Hiett, Secy. and Mgr. Peoples Savings Asso., interested.

Uhio, Urbana—Eagle Glass Co., of Chicago, plans to remove plant to Urbana and build factory. About $300,000.

Ohio, Westerville—Buckeye Printing Co. plans to enlarge plant.

Ohio, Youngstown—Youngstown Towel and Supply Co. plans 2-story laundry on North Ave. About $25,000.

Mich., Big Rapids—Four Drive Tractor Co. increased Capital stock from $50,000 to $200,000 and plans to enlarge plant.

Mich., Detroit—Detroit Bearing and Casting Co., 75-85 West Baltimore Ave., plans addition.

Mich., Detroit—D. M. Ferry & Co. plans 9-story, 83x112x138-ft. rein.-con. warehouse. About $160,000.

Mich., Detroit—Ford Motor Co. plans 16-story building, Broadway and 54th St. About $700,000. A Kahn and E. Wilby, Detroit. Arch.

Mich., Flint—Buick Motor Co. plans addition to plant on Hamilton Ave., about $12,500.

Mich., Kalamazoo—Kalamazoo Malleable Iron Co. making plans for 1-story, 250x300-ft. factory. About $125,000. E. J. Albertson, East Main St., Arch. Noted Sept. 28.

Mich., Monroe—Monroe Binder Board Co. making plans for new factory, about $400,000.

Mich., Walkerville—Motor Products Co. plans plant.

Mich., Watervliet—Watervliet Paper Co. making plans for enlarging plant, about $200,000. E. J. Stevens, Kalamazoo, Engr.

Mich., Wayne—Harroun Motors Corporation, recently incorporated in Delaware with $10,000,000 capital stock, purchased plant of Prouty & Glass Carriage Co. and will build large additions. J. G. Monihan, Pres.

Ill., Chicago—H. H. Hettler Lumber Co. purchased site on Elston Ave. and plans plant. About $300 000 or $500,000.

Ill., Decatur—Wabash Railway Co. plans steel shop building. A. O. Cunningham, Railway Exchange Bldg., St. Louis, Ch. Engr.

Ill., Rockford—Rockford Paper Box Board Co. plans addition. About $150,000.

Ill., Rockford—Union Products Co. plans factory to manufacture auto piston rings, about $200,000. A. A. Martin, Pres.

Ill., Rock Island—Illinois Oil Co. plans 4-story factory at Rock Island, about $100,000.

Wis., Baraboo—Johnson Fuel and Warehouse Co. plans grain elevator and cold-storage plant.

Wis., Menomonie—Joseph Heidenmair plans brewery. About $20,000.

Wis., Milwaukee—Northwestern Lithographing Co. plans addition, 15th and Clybourn St., about $20,000.

Wis., Racine—Johnson-Field Manufacturing Co., 17th and Holburn St., plans to rebuild plant destroyed by fire.

Iowa, Clinton—Lagomarcino-Grupe Co. plans plant on 5th Ave.

Iowa, Council Bluffs—Droge Elevator Co. made plans for warehouse, 9th Ave. and 12th St., about $50,000.

Minn., St. Paul—Pioneer Grain Co. granted permit for elevator, about $12,000.

Minn., St. Paul—Tri State Land Co. plans storage warehouse at Willus and Grove St., about $250 000.

Neb., Bayard—Great Western Sugar Co. plans factory.

Neb., Blue Springs—Black Bros. making plans for enlarging flour and grain mill, about $25,000.

Neb., Jansen—Jansen Equity Exchange plans to rebuild elevator destroyed by fire.

N. D., Jamestown—Midland Continental R.R. plans to spend $38,000 to rebuild shops recently destroyed by fire. J. A. Wiley, Jamestown, Supt. and Ch. Engr.

Mo., Carthage—Kaut-Reith Shoe Co. plans to enlarge plant, about $17,500.

Mo., Harrisonville—Woodare Fancy Breeders and Dairy Co. will be incorporated with $250,000 capital stock and plans plant near Harrisonville. C. F. and J. M. Huffman, interested.

Mo., Kansas City—Maxwell Motor Sales Corporation to build 4-story brick and concrete assembling plant at St. John and Beacon Ave. About $300,000. E. W. Shields, Pres.

Mo., St. Louis—Booth Cold-Storage Co. granted permit for 8-story addition, Main and Ashley St., about $130,000. Noted Oct. 5.

Ark., Ft. Smith—Ft. Smith Compress Co. plans 5 warehouses. About $50,000.

Ark., Nashville—W. T. Hood and D. B. McMurran plan factory to manufacture peanut butter.

Ark., Pine Bluff—Chess-Waymond Cooperage Co., Louisville, Ky., plans plant at Pine Bluff.

Idaho, Rupert—Eccles Sugar Co., recently incorporated with $2,000,000 capital stock, plans factory near Rupert.

Ore., Portland—Log Cabin Baking Co., 265 Ivy St., making plans for bakery, about $25,000. H. F. Rittman and J. A. Wright, interested. F. A. Legg, Salem, Arch.

Calif., Fresno—Fresno Agricultural Works, M St., Tulare and Kern St., making plans for 1-story brick warehouse, about $25,000. E. Mathewson, Cory Bldg., Arch.

Calif., Los Angeles—Dodge Bros. plan to spend about $344,000 to enlarge plant.

Calif., Los Angeles—Los Angeles Brewing Co., 1920 North Main St., making plans for alterations, about $30,000. Mayberry & Parker, Pacific Electric Bldg., Arch.

Calif., Madera—Associated Oil Co. granted permit for oil station, including warehouse, pump house, garage, etc. About $15,000.

Calif., San Diego—T. C. Bond interested in shipbuilding plant and dry dock at San Diego. About $1,250,000.

Que., Montreal—Lymburner, Ltd., plans addition. About $12,000.

Que., Sherbrooke—Canadian Ingersoll-Rand Co. plans addition to machine shop.

Ont., Acton—Reliance Shoe Co., 350 Sorauren Ave., Toronto, plans factory at Acton. About $10,000.

Ont., Amherstburg—Brunner Mond of Canada, Ltd., recently organized with $3,000,000 capital as Canadian subsidiary of Solvay Process Co. of Syracuse, N. Y., plans plant in Amherstburg.

Ont., Espanola—Spanish River Pulp and Paper Co. plans sulphite plant at Espanola.

Ont., Welland—Electro Steel and Metals, Ltd., plans addition to foundry. About $10,000.

Sask., Moose Jaw—Saskatchewan Bridge and Iron Works plans plant at Moose Jaw. G. Harrison, Mgr.

Sask., Saskatoon—Saskatoon Bread Co. plans bakery at 1st Ave. and 22nd St. About $15 000.

B. C., Vancouver—Alberta Lumber Co. granted permit for mill, 6th and Willow St. About $100,000. Noted July 27.

Bids In and Contracts Awarded

N. H., Franklin—Franklin Needle Co. let contract machine shop to J. W. DRESSER, Franklin, about $15,000.

N. H., Keene—Keene Artistic Narrow Web Co. let contract factory to M. MARTIN, Keene.

N. H., Manchester—G. A. Leighton, 136 Concord St., let contract foundry to J. H. MANDELL CO., 238 Granite St., about $12,000.

Mass., Athol—Union Twist Drill Co. let contract 2 additions to E. J. CROSS CO., 82 Foster St., Worcester.

Mass., Bostan—J. J. Dorgan, 531 3rd St., South Boston, let contract 2-story garage to LEAHY RATTIGAN CONSTRUCTION CO., 7 Water St., Boston, about $43,000.

Mass., Chelsea—Southwestern Cone Co., 191 Williams St., let contract 3-story factory to J. SHOOLMAN, 131 Laurel St., Malden, about $20,000. Noted Aug. 10.

Mass., Everett—Moore & Co., Paris St., let contract addition to factory to W. M. BAILEY CO., 88 Broad St., Boston, about $67,000.

Mass., Lowell—Massachusetts Cotton Co. let contract mill to D. E. WALKER, Lowell.

Mass., New Bedford—Acushnet Mill Corporation let contract 4-story, 50x176-ft. addition to Mill No. 1 to McNALLY BUILDING CO., Gardner.

Mass., Somerville—Industrial School for Boys, Tufts St., to build 1-story machine shop by day labor. About $10,000. W. T. Littlefield, 9 Hamilton Pl., Boston, Arch. Noted Aug. 17.

Conn., Waterbury—Waterbury Manufacturing Co. let contract 6-story, 104x200-ft. addition to TORRINGTON BUILDING CO.

N. J., Passaic—(Official)—Manhattan Rubber Co. let contract 5-story, 100x300-ft. mill building and 4-story warehouse to STONE & WEBSTER ENGINEERING CORPORATION, 120 Broadway, New York.

Penn., Connellsville—Pennsylvania R.R. let contract freight station and office building to D. T. RIFFLE, about $40,000. Noted Apr. 13.

Penn., Philadelphia—W. H. Purdy, Swanson and Christian St., let contract 2-story, 78x100-ft. garage, Media Ave. and 59th St., to J. D. FISHER, 5718 Market St., Philadelphia.

N. C., Marion—Clinchfield Manufacturing Co. let contract Mill No. 2 to GALLIVAN BUILDING CO., Greenville, S. C. About $450,000. Noted Sept. 14.

S. C., Gaffney—R. E. Johnson let contract warehouse on Frederick St. to POOLE & GRIFFITH CO.

Fla., Jacksonville—City let contract warehouse, municipal docks and terminals, St. Johns River between 14th and 21st St., to FLORIDA METAL PRODUCTS CO., Jacksonville, about $65,000.

Tenn., Chattanooga—Signal Knitting Mills let contract factory to A. F. HAHN, Chattanooga, about $40,000. Noted June 15.

Ky., Lexington—Lexington Bonded Storage and Warehouse Co. let contract warehouse to COMBS LUMBER CO., Lexington, about $40,000. Noted Aug. 17.

Ky., Louisville—Standard Sanitary Manufacturing Co. let contract 1-story shop to ROMMEL BROS., about $25,000.

Ohio, Canton—Home Brewing Co., 2nd St., N. E., let contract 2-story addition to BOLLINGER BROS., about $10,000.

Ohio, Cincinnati—Coco Cola Bottling Co. let contract plant on Pioneer St. to FERRO-CONCRETE CONSTRUCTION CO., Richmond and Harriet St., about $10,000. Noted Apr. 27.

Ohio, Cincinnati—Fischer Special Manufacturing Co., 2076 Reading Rd., let contract addition to plant to H. C. HAZEN CONTRACTING CO., 2070 Reading Rd., about $12,000. Noted Sept. 21.

Ohio, Toledo—Toledo Shipbuilding Co. let contract addition to plant on Front St. to A. BENTLEY & SONS, about $14,000.

Ohio, Wooster—Woodard Machine Co. let contract additions to LONG & BOGNER. Noted Sept. 21.

Ind., Ft. Wayne—Furnas Ice Cream Co. let contract 2-story factory, Clay and Columbia St., to B. BORKENSTEIN, about $30,000. Noted Aug. 3.

Mich., Saginaw — Demers Auto Exchange let contract 1-story building to SPENCE BROS.

Ill., Chicago—Imperial Brass Manufacturing Co., Harrison St. and Racine Ave., let contract 6-story factory to J. W. SNYDER CO., about $80,000.

Ill., Chicago—Metal Specialties Co., 3200 Carroll Ave., let contract 4-story factory to A. LUND CONSTRUCTION CO., 19 South La Salle St., about $100,000.

Ill., Chicago—White Laundry Co. let contract 1-story laundry to J. B. COULEUR, 2541 Logan Blvd., about $55,000. Noted July 20.

Wis., Mauston—R. R. Kastner let contract 2-story, 80x200-ft. warehouse to B. F. JONES. Noted Sept. 28.

Minn., Dover—Dover Creamery Association let contract plant to J. J. LEE, Kellogg, about $10,000. Noted Oct. 12.

Minn., Winona—Pepin Pickle Co. received low bid factory from P. Schwab, about $18,000. E. S. La France, Mgr. Noted Sept. 7.

N. D., Minot—North American Creamery Co. let contract building at Central Ave. and Soo line to D. A. DINNIE, about $10,997.

Mo., St. Louis—Polar Wave Ice and Fuel Co. to build ice-storage plant by day labor, about $20,000. Noted Sept. 14.

Ark., Little Rock—J. F. Weinman Milling Co., 529 Markham St., let contract mill, grain elevator and warehouse to M. BUSH & BROS., about $40,000.

Tex., San Antonio—Mission Ice and Fuel Co. let contract plant to AIKEN & TEMPLIN, San Antonio, about $10,400. Noted Sept. 28.

Ore., Portland—United States Bakery Co. let contract addition, East 11th and Flanders St., to W. VAETZ, about $12,000. Noted Jan. 27.

Calif., Los Angeles—J. M. Danziger let contract 1- and 2-story dairy to C. G. GOLDTHWAITE, Marsh-Strong Bldg., about $20,500.

N. B., Moncton—Reed Co., Ltd., let contract warehouse to McDONALD & McNEILL, Moncton. Noted Aug. 24.

Ont., Arnprior—David Craig let contract grist mill to THOMAS MORAN & SON. About $18,000. Noted July 27.

Ont., Fergus—Beattie Bros. let contract addition to J. W. OAKES, Guelph. About $50,000. Noted Aug. 3.

Ont., Ft. William—Ogilvie Flour Mills Co., Ltd., let contract addition to BARNETT & McQUEEN CO., LTD., Cuthbertson Blk. About $20,000. Noted Mar. 16.

Industrial Works (Continued)

Ont., Walkerville—Walker Sons let contract factory to AUSTIN BROS., 120 Devonshire St., Walkerville. About $20,000.

Man., Winnipeg—J. H. Ashdown Hardware Co., Ltd., let contract warehouse to MALCOLM BROS., 1110 McArthur Bldg., Winnipeg. About $28,000.

Alta., Calgary—Advance Rumley Co., Ltd., Beveridge Bldg., let contract warehouse to THOMAS, JAMIESON & McKENZIE, Travis Bldg., about $12,500. Noted July 20.

FEDERAL GOVERNMENT WORK

Proposed Work

Mass., Chelsea—Seawall—Bureau of Yards and Docks, Navy Dept., Washington, receiving bids Nov. 6. F. R. Harris, Ch. Noted Oct. 12.

Va., Franklin—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Nov. 22.

Va., Norfolk—Dredging—U. S. Engineer Office, Norfolk, receiving bids Nov. 14, from Norfolk to Beaufort Inlet, N. C. (See adv.)

Va., Norfolk—Removal of Barge—U. S. Engineer Office, Norfolk, receiving bids Oct. 28, Barge Ivie, sunk in Hampton Roads. (See adv.)

Tex., Sabine Pass—Jetty Work—U. S. Engineer Office, Dallas, receiving bids Nov. 14 for jetty work at Sabine Pass. (See adv.)

Tex., Velasco—Coast Guard Station—U. S. Coast Guard Office, Washington, D. C., receiving bids Nov. 15 for coast-guard station at Velasco. E. P. Bertholf, Capt.-Commandant. (See adv.)

Tex., Yoakum—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Nov. 20.

Wash., Seattle—Crane and Switch Points—C. E. Dole, Pur. Agt., Alaska Engineering Comn., receiving bids Oct. 25 for 40-ton shop crane and 50 pairs switch points.

Bids In and Contracts Awarded

Mass., Gloucester—Retaining Basin—G. T. Rendle Co., Boston, at $5,896, low bidder, Fisheries Station. Noted Oct. 5.

D. C., Washington—Paving—Dist. Comrs. let contract to CRANFORD PAVING CO., Washington.

W. Va., Huntington—Post Office—Contract let to J. DEVAILT, Canton, about $155,000. Noted Oct. 12.

Ky., Louisville—Iron Castings—J. & J. B. Milholland Co., 714 5th Ave., Pittsburgh, at $12,384, only bidder, Lock No. 41, Ohio River. Noted Sept. 14.

Mont., St. Ignatius—Canal Work—U. S. Rec. Ser. let contract canals and structures on Flathead Project to PEARSON CONSTRUCTION CO., Seattle, about $38,256. Noted Oct. 5.

Wyo., Ft. Laramie—Canal Work—Low bidders were: MacArthur Bros. Co., 120 Broadway, New York, $32 259; Winston Bros. Co., Minneapolis, $32,147; Hayden Bros., Great Falls, Mont., $41,080. Noted Aug. 31.

Wyo., Ft. Laramie—Reclamation—U. S. Rec. Ser. let contract 2 tunnels and concrete lining of canal approaches to tunnel of Ft. Laramie Canal, North Platte Irrigation Project, to WINSTON BROS. CO., Minneapolis about $255,726. Noted June 8.

China, Pekin—Ice Plant—Bureau of Yards and Docks, Navy Dept., Washington, let contract to KROESCHEL BROS. ICE MACHINE CO., 472 West Erie St., Chicago, item 1, $4,536, item 2, $1,065, item 4, $8.50 per day. Noted Sept. 14.

CANALS, DITCHES AND IRRIGATION

Proposed Work

S. C., Anderson—Drainage—Anderson County Comrs. organized Six and Twenty Creek Drainage Dist. to drain 1,159 acres. W. H. Sherer, Engr.

Miss., Yazoo City—Drainage—Comrs. Willis Creek Drainage Dist. making surveys for canal. M. H. Brewer, Silver City, Engr.

La., New Roads—Drainage—Portage Drainage Comrs. will issue $25,000 bonds for improving 86,380 acres of land.

Tenn., Huntingdon—Drainage—Carroll County Drainage Dist. No. 2, Big Sandy River, made surveys. A. Oldfield, Huntingdon, Engr.

Tenn., Huntingdon—Drainage—Carroll County Drainage Dist. No. 3 making surveys, Rutherford Fork, Obion River. A. A. Oldfield, Huntingdon, Engr.

Ind., Winamac—(Official)—Ditch—Pulaski County receiving bids Oct. 28 for D. F. Harpster et al. Ditch. C. E. Paul, Winamac, Const. Comr.

Minn., Bemidji—Ditch—Beltrami County rejected bids for Judicial Ditch No. 25. New bids Oct. 27. J. L. George, Bemidji, County Audr. Noted June 1.

Minn., Breckenridge—Ditch—Wilkins County receiving bids Oct. 23 for Ditch No. 26. About $6,311. P. E. Truax, Breckenridge, County Audr.

Bids In and Contracts Awarded

Mass., Lynn—Dredging—Waterways and Pub. Lands Comn. let contract, Saugus River Channel to GILBERT H. HARRIS, 88 Broad St., Boston, 49c. cu.yd. Noted Oct. 5.

N. Y., Albany—(Official)—Barge Canal Work—Bids received Oct. 3 for Erie Canal, Contract No. 2-G, Erie Canal, Sect. 1, from A. A. Parker, Waterford, $10,779; Davis & Allen, Arpa Bldg., $11,160; Marx & Popp, Brooklyn, $11,275. Noted Sept. 14.

N. Y., Albany—(Official)—Barge Canal Work—W. W. Wotherspoon, State Supt. Pub. Wks. let contract No. 44-A, Erie Canal, Sect. 5, to SCOTT BROS., Rome, about $52,486. Noted Sept. 14.

N. Y., Albany—(Official)—Barge Canal Work—Bids received Oct. 10 for Erie Canal, Contract No. 59, from Larkin & Sangstor, 906 D. S. Morgan Bldg., Buffalo, $1,833,862; Maryland Dredging and Contracting Co., Fidelity Bldg., Baltimore, $1,664,316; MacArthur Bros., 120 Broadway, New York, $1,596,788. Noted Sept. 21.

N. Y., Albany—(Official)—Barge Canal Work—W. W. Wotherspoon, State Supt. Pub. Wks., let contract No. 81, Erie Canal, Sect. 5, junction lock at Rome to C. EARL & HEIMBACH, 20 Breckenridge St., Buffalo, $53,998; Contract No. 137, Erie Canal, Sect. 3, driving steel sheetpiling at Dam No. 10, Canajoharie and incidental work, J. A. LAPORTE, Mechanicsville, $22,650. Noted Sept. 21.

N. Y., Albany—(Official)—Barge Canal Work—Bids received Oct. 10 for Contract No. 91-A, Erie Canal, Sect. 1, new governor equipment for hydro-electric power plant near Crescent Dam from Lord Construction Co., 105 West 40th St., New York, $5,930, and Lupfer & Remick, Buffalo, $6,605. Noted Sept. 21.

N. Y., Albany—(Official)—Barge Canal Work—Lupfer & Remick, Buffalo, at $72,185, only bidder Contract No. 132, Sect. 5 and 6 Erie Canal. Noted Sept. 14.

N. Y., Albany—(Official)—Barge Canal Work—W. W. Wotherspoon, State Supt. Pub. Wks. let contract No. 133, Erie Canal, Sect. 4, to MORRISON & QUINN, INC., Rochester, $48,910. Noted Sept. 14.

N. Y., Albany—(Official)—Barge Canal Work—P. Keeler Building Co., Albany, at $66,705, only bidder Terminal Contract No. 201, warehouses at Albany and Whitehall. Noted Sept. 21.

N. Y., New York—(Brooklyn)—(Official)—Dredging—Borough Pres. received bids, Newton Creek Canal, from J. & J. McSpirit, 118 Wayne St., Jersey City, N. J., $7,020; W. E. Potter, $9,000. Noted Oct. 5.

Penn., Philadelphia—Dredging—City let contract, creeks in 40th ward, to CHEW BROS., Mantua, N. J., $11,418. Noted Oct. 12.

Ind., Bloomington—Drainage—Monroe County let contract 7¼ mi. open ditch in Golden Rule Drainage Dist. to R. J. PHELPS, Davenport, about $13,378; 3¾ mi. tile drain to C. FOSNAUGH, Belleflower, about $14,991.

Ind., Ft. Wayne—(Official)—Ditch—Allen County let contract Schlemmer Ditch to C. L. V. SHEETS, Monroeville, $5,000. Noted Oct. 5.

Ind., Kokomo—(Official)—Ditch—Howard County let contract E. J. Troyer et al. Ditch to B. F. CHAFFIN, Kokomo, $10,990. Noted Oct. 5.

Iowa, Sioux City—(Official)—Ditch—County let contract, Boyer Drainage Dist., to ELLIOTT CEMENT PRODUCTS CO., Turin. Noted Oct. 5.

Iowa, Sioux City—(Official)—Ditch—County let contract, Smithland Drainage Dist., to CANAL CONSTRUCTION CO., Chicago, Ill., 10½c. cu.yd. Noted Oct. 5.

Minn., Ada—Ditch—County let contract Ditch No. 41 to E. M. HEDAL, 12½c. cu.yd.

Minn., Benson—Ditch—Swift County rejected bids for Ditches Nos. 13 and 15. D. P. Carney, Benson, County Audr. Noted Aug. 10.

Minn., Benson—(Official)—Ditch—Swift County let contract Ditch No. 16 to W. L. SEDGLEY, Worthington, $14,653. Noted Sept. 28.

Minn., Crookston—Ditch—Polk County let contract Ditch No. 64 to C. W. ROOD CONSTRUCTION CO., Grand Rapids, Wis., $13,514.

Minn., Morris—(Official)—Ditch—Stevens County let contract Ditch No. 25 to MORRIS CONSTRUCTION CO., Morris, $11,353. Noted Oct. 5.

Minn., Morris—(Official)—Ditch—Stevens County let contract Ditch No. 27 to MINNESOTA CONSTRUCTION CO., Minneapolis, $5,225. Noted Oct. 5.

Neb., Humboldt—(Official)—(Drainage)—Drainage Dist. No. 4 let contract 7 mi. new channel for South Fork Nemaha River to F. M. CRANE CO., Omaha, $38,937. Noted Sept. 28.

Wash., Aberdeen—(Official)—Drainage—City let contract drainage ditches west of Division St. to CARL GYLLING, Aberdeen, about $12,120.

MISCELLANEOUS

Proposed Work

N. Y., Syracuse—(Official)—Race Track—New York State Fair Comn. receiving bids Oct. 23. A. E. Brown, Secy. Comn. (See adv.)

N. Y., Syracuse—(Official)—Removal of Grand Stand—New York State Fair Comn. receiving bids Oct. 23. A. E. Brown, Secy. Comn. (See adv.)

N. J., Longport—(Official)—Seawall—Borough Comrs. receiving bids Oct. 26, concrete 1 mi. long, about $275,000. A. Gilmore, Clk. Noted Oct. 12.

N. J., Newark—(Official)—Cast Iron Pipe—Bd. Street and Water Comrs. receiving bids Nov. 2. M. R. Sherrerd, Ch. Engr. (See adv.)

Penn., Philadelphia—(Official)—Subway—Dept City Transit receiving bids Dec. 7 for section of Broad St. Subway, Contract 102. W. S. Twining, Dir. Noted Oct. 12. (See adv.)

Ohio, Cleveland—(Official)—Comfort Station—City rejected bids received Oct. 14, St. Clair Ave and 105th St. New bids Nov. 2. F. H. Betz, City Arch. Noted Oct. 5.

Ohio, Cleveland—Elimination Grade Crossings—Council passed ordinance ordering New York Central R.R. to abolish grade crossing at East 49th and 72d St. G. C. Cleveland, St. Clair Ave. and 3d St., Cleveland, Ch. Engr. R. Hoffman, City Engr.

Ohio, Tiffin—(Official)—Creek Improvements—Seneca County receiving bids Nov. 4 for widening and deepening Rock Creek. J. I. Oberlander, County Surv. Noted Aug. 10.

Ind., Indianapolis—Levee Improvement—Bd. Pub. Wks. receiving bids Oct. 23 for flood levee for east bank of White River from Maryland St to Washington Ave. About $95,000. B. J. T. Jeup, City Engr. Noted Apr. 6.

Mont., Lewiston—Aerial Tramway—Three Forks Portland Cement Co. plans from holdings on mountain to plant at Hanover. About $100,000.

Tex., Beaumont—Wharf—City retained O. A. Seward, Engr., to make plans for units to complete wharf system. Noted Oct. 5.

Calif., San Diego—Dry Dock—See item under "Industrial Works."

Alta., Edmonton—Market—City plans temporary market. About $7 500. C. E. K. Cox, City Clk.

Bids In and Contracts Awarded

Mass., Boston—(Official)—Park Improvements—City rejected bids received Oct. [illegible] for development of South Boston Strandway. E. F. Murphy, Comr. Pub. Wks. Noted Oct. 5.

Mass., Salem—Coal Pocket—Lehigh & Wilkes-Barre Coal Co. to build addition to coal pocket by company's forces. About $10,000. G. P. Carver, 56 State St., Boston, Engr.

N. Y., Niagara Falls—Subway Approaches—City let contract, New York Central R.R. and College Ave., to E. H. BROWN CO., Hempstead, $30,943.

N. J., Long Branch—Jetty—City let contract concrete jetty beach at West End to T. PROCTOR, North 5th Ave. Noted Sept. 21.

Md., Sparrows Point—Piers—Penn-Mary Steel Co. (Bethlehem Steel Co.) let contract 2 piers to RAYMOND CONCRETE PILE CO., 90 West St., New York.

Miss., Gulfport—Seawall—City let contract 4½ mi. seawall to W. J. GURLEY, Mobile, Ala., $100,667. Noted Sept. 14.

Miss., Vicksburg—Levee Work—Upper Texas Levee Dist., Arkansas River, Ark., let contract about 680,000 cu.yd. levee work to ROACH & STANSELL Memphis, Sect. 1, $40,800, Sect. 2, $30,713, Sect. 3, $40,950, Sect. 4, $42,775.

La., New Orleans—Levee Work—Bids for levee work recommended for acceptance were: Kempe Levee, 150,000 cu.yd. F. T. Constant, Alexandria, 31½c. per cu.yd.; L'Argent sublevee, 3,000 cu.yd., H. T. Van Fosen, Lake Providence, 16c.; White Oak Lake Levee, 51,000 cu.yd., Jackson Construction Co., Natchez, 42.9c.; Atchafalya Dist. Levee, 700,000 cu.yd., Gresser Contracting Co., New Orleans, 13.47c.

Ohio, Wooster—Animal Building—Bd. Control Ohio Agriculture Experiment Station let contract to LONG & BOGNER, Wooster, $4,487. Noted Aug. 10.

Wis., Superior—Ore Dock—Minneapolis, St. Paul & Sault Ste. Marie Ry. let contract to PEPPARD & FULTON. C. N. Kalk, Minneapolis, Ch. Engr.

Minn., Claremont—Dam—County let contract dam northwest side Rice Lake to E. T. MARSHALL, Claremont.

Wash., Seattle—Market—City let contract, 6th Ave. and Pine St., to BOOKER KIEHL & WHIPPLE, Central Bldg., Seattle. About $30,000.

Wash., Seattle—Shed—Port Comrs. let contract transit shed foot of Spokane St. to HARRINGTON PETERS CO., Oriental Bldg., Seattle, $32,800. Noted July 27.

Ore., Portland—Retaining Wall—Multnomah County let contract to PALMER-ELLISON CONSTRUCTION CO., Henry Bldg., about $5,616. Noted Aug. 24.

Calif., Martinez—Fire Protection System—City let contract to GAMEWELL FIRE ALARM SYSTEM, 86 3rd St., about $5,000. Noted Mar. 16.

Ont., Windsor—Grand Stand—Western Racing Association let contract grand stand and barns to L. A. CARRIERE, 57 Chatham St., W., Windsor. About $50,000.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

N. H., Exeter—(Official)—Gymnasium and Swimming Pool—Phillips Exeter Academy receiving bids Oct. 23, 10-story, 80x100-ft. F. A. Colby, 15 East 40th St., New York, Arch. Noted Sept. 14.

Mass., Reading—Commonwealth of Massachusetts making plans for administration and hospital building, 2-story. H. F. Kellogg, 141 Milk St., Arch.

Buildings (Continued)

Conn., Bridgeport—Y. W. C. A. making plans for building about $225,000. J. G. Ludlum, 1087 Broad St., Pres. D. Barber, 125 East 74th St., New York, Arch.

Conn., Bristol—Recreation Building—E. L. Wismer, 31 Maple St, interested. About $150,000.

Conn., Fairfield—School—Town making plans for 2-story addition, about $40,000. Skinner & Walker, 1188 Main St., Bridgeport, Arch.

N. Y., Bayside—(Official)—New York Telephone Co., 15 Dey St., New York, receiving bids for 3-story, 50x70-ft. building, about $80,000. H. C. Carpenter, 15 Dey St., New York, Arch.

N. Y., Buffalo—New York Central R.R. plans passenger terminals at Buffalo. G. W. Kittredge, Grand Central Terminal, New York, Ch. Engr.

N. Y., Elmira—Elmira College revising plans for 2-story dormitory, about $50,000. Pierce & Bickford, 118 Lake St., Arch.

N. Y., New Haven—Depot—New York, New Haven & Hartford R.R. plans election Oct. 25 to vote on $700,000 bonds. E. Gagel, New Haven, Ch. Engr.

N. Y., New York — (Bronx) — (Official)—Bd. Education making plans for Public School No. 32. C. B. J. Snyder, Park Ave. and 59th St., Manhattan, Supt. Schools.

N. Y., New York—(Manhattan)—(Official)—S. K. Jacobs, 428 4th Ave., making plans for 30-story loft building, Broadway and 48th St., about $800,000. E. Litchfield, 477 5th Ave., Arch.

N. Y., Syracuse—(Official)—Y. W. C. A. receives bids in about 2 months for 4-story building, about $150,000. Taylor & Bonta, 615 Guerney Bldg., Arch. Noted Oct. 5.

N. J., Atlantic City—Hotel Royal Palace, Euclid Ave., making plans for addition, about $750,000. W. Hanstein, Mgr.

N. J., Atlantic City—Hotel—G. W. Carmany Estate, South Tennessee Ave., made plans alterations and addition to Fredonia Hotel. About $50,000. S. H. Vaughan, Guarantee Trust Bldg., Arch.

N. J., Woodbury—Clubhouse—Altwood Country Club making plans, 2-story. O. R. Parry, Arch.

Penn., Brownsville—Pennsylvania R.R. plans office building and depot. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Penn., Johnstown—High School—Bd. Education receives bids about Dec. 1. About $200,000. W. A. Cochran 605 Central Ave., Pres. J. E. Adams, Lincoln Bldg., and G. Wild, 734 Main St., Designing Arch. Noted Aug. 24.

Penn., Pittsburgh—Passavant Hospital, Reed and Miller St., plans addition. About $100,000.

Penn., Pittsburgh—Church—East End Christian Church making plans, Shady Lane and Howe St., about $150,000. Janssen & Abbott, Arch.

Penn., York—School—Bd. Education plans, about $40,000. D. Keeder. Secy. R. E. Stair, Jr., Guardian Trust Bldg. and E. Leber, Hay Bldg., Arch., about $40,000.

Del., Wilmington—Church—Westminster Presbyterian Church making plans, Pennsylvania and Rodney St., about $40,000. E. C. May, Wilmington, Arch.

D. C., Washington—Knickerbocker Theater Co. made plans 3-story, 125x159x173-ft. auditorium, store and office building. About $80 000. R. W. Geare, Woodward Bldg., Arch.

Va., Charlottesville—Club House—University of Virginia making plans, 2½-story, 100x150-ft., about $40,000. Ferguson, Calrow & Wrenn, Virginia National Bank Bldg., Norfolk, Arch. Noted Aug. 10.

N. C., Hickory—Office—Southern Public Utilities Co. plans.

N. C., Rockingham—Court House—Richmond County plans, about $75,000. Address Clk., Wentworth.

S. C., Greenville—Court House—County plans, about $50,000. Address Clk., Greenville.

La., Bogalusa—Schools—See item under "Water-Works."

Tenn., Murfreesboro—High School — Citizens voted $75,000 bonds. G. B. Giltner, Mayor. Noted Sept. 21.

Ky., Covington—Eagles No. 329 plan home on East 8th St., about $50,000.

Ky., Shelbyville—High School—Joseph & Joseph, Atherton Bldg., Louisville, receiving bids Oct. 23 2-story, 60x125-ft. About $50,000. E. Smith, Shelbyville, Secy. Bd. Education. Noted Sept. 21.

Ohio, Elyria—Theater—American Theater Co. plans, about $45,000.

Ohio, Fostoria—Club House—Fostoria Country Club plans. McLaughlin & Hulskin, Lima, Arch.

Ohio, Norwood—(Official)—School—Bd. Education receives bids in 60 or 90 days, about $120,000. H. Ryland, Clk. Bausmith & Drainie 901 Gerke Bldg., Cincinnati, Arch. Noted Oct. 5.

Ohio, Warren—First Presbyterian Church soon receives bids for alterations and additions, about $88,000. Crow, Lewis & Wickenhoefer, 200 5th Ave., New York, Arch. Noted June 29.

Ind., Gary—First Reformed Church plans building, 5th and Pierce St., about $50,000. J. M. Johnson, Pastor.

Ind., Indianapolis—Station—Vandalia Railroad Co. Vandalia, plans. F. T. Hatch, St. Louis, Ch. Engr.

Mich., Marquette—High School—Bd. Education making plans, 3-story. A. R. Watson, Marquette, Supt. J. D. Chubb, 109 North Dearborn St., Chicago, Arch.

Ill., Oak Park—Parish House—Grace Episcopal Church making revised plans, 2-story, about $40,000. F. Godolphin, 924 Lake St., Pastor. C. E. White, 139 North La Salle St., Chicago, Arch.

Wis., Eau Claire—City election Nov. 7 to vote on $45,000 bonds for public building.

Wis., Madison—Episcopal Societies plan University Church, about $250,000. J. M. Boyd, 313 Wisconsin Ave., interested. Childs & Smith, 1263 Peoples Gas Bldg., Chicago, Arch.

Iowa, Cedar Rapids—Office—W. C. Dow, Dow Blk., making plans, 10-story, brick, stone and rein.-con. About $200,000. H. I. Cobb, 527 5th Ave., New York, Arch.

Iowa, Des Moines—Des Moines Consistory No. 3 plans consistory cathedral, about $300,000. K. L. Kaffer, 610 Youngerman Bldg., 5th and Mulberry St., Arch.

Minn., Duluth—Zenith Telephone Co. plans 3-story rein.-con. building on 1st St., about $60,000.

Minn., Duluth—Theater—E. A. Nelson, 2107 West Superior St., plans, about $50,000. Holstead & Sullivan, 410 Palladio Bldg., Arch.

Minn., Duluth—Synagogue—Temple Emmanuel Church plans, about $50 000. Address M. Lefkovits.

Minn., Hibbing—Holstead & Sullivan, Arch., Palladio Bldg., Duluth, making plans for detention hospital, about $60,000.

Minn., Mora—High School—School Bd. making plans, about $50,000. C. E. Williams, Clk. E. F. Broomhall, 710 Alworth Bldg., Duluth, Arch. Noted Sept. 14.

Minn., Owatonna—High School—Citizens voted $150,000 bonds. Noted Sept. 21.

Minn., St. Cloud—St. Raphael's Hospital Association plans hospital, about $150,000.

Minn., St. Paul—St. Paul Union Depot Co. plans, about $15,000,000.

Minn., Twin Valley—City Hall—City soon lets contract, about $50,000. A. F. Fridlund, Moorhead, Arch.

Minn., Virginia—High School—City making plans. About $100,000. C. E. Nystrom, Palladio Bldg., Duluth, Arch.

Kan., Marion—School—City election Dec. 1 to vote on $50,000 bonds. T. W. Williamson & Co., Topeka, Arch. Noted Sept. 7.

Neb., Omaha—St. Mary's Ave. Congregational Church plans new building. About $150,000.

Mont., Bozeman—Bozeman Deaconess Hospital making plans, about $80,000.

Mont., Livingston—High School—City plans election to vote on $45,000 bonds.

Mo., Galena—Court House—Stone County election Nov. 7 to vote on $50,000 bonds. Address County Clk., Galena.

Ark., Helena—Station—Illinois Central and Missouri & North Arkansas R.R. plans, about $300,000. A. S. Baldwin, Chicago Ch. Engr. of former and W. C. Galbreath, St. Louis, Ch. Engr. of latter.

Tex., Denison—School—School Bd. receiving bids Oct. 26. About $50,000. C. H. Page & Bros., Austin, Arch. Noted Sept. 7.

Tex., Waco—Central Texas Baptist Sanitarium making plans for building. About $100,000. J. F. Rowe, secy. G. Burnett, 212 Cameron Bldg., Arch. Noted Oct. 5.

Okla., Sapulpa—High School—City election Nov. 7 to vote on $75,000 bonds. Noted June 1.

Okla., Stillwater—Court House—Payne County election Nov. 7 to vote on $100,000 bonds for courthouse. W. T. Keys, Stillwater, County Clk.

Okla., Tulsa—(Official)—Office—Tulsa—Sinclair Oil and Gas Co. receiving bids Oct. 26, about $200,000. C. K. Birdsall, 1002 Commerce Bldg., Kansas City, Arch. Noted Oct. 5.

Okla., Tulsa—F. A. Haver, 1415 South Cheyenne St. soon receives bids for 3-story business building, about $45,000. G. Winkler, Palace Bldg., Arch.

Colo., Pueblo—Auditorium and City Hall—Council received no bids Sept. 30. About $220,000. New bids. J. Jackson, City Clk. W. W. Stickney, Arch. Noted Sept. 21.

Calif., Riverside—Depot—Atchison, Topeka & Santa Fe Ry. plans. C. F. W. Felt, 5344 Hyde Park Blvd., Chicago, Ch. Engr.

Bids in and Contracts Awarded

Maine, Bangor—Store—C. W. Morse let contract, 1-story, 80x195-ft., to E. C. HODGINS & SON, Bangor about $50,000.

Mass., Chelsea—School—C. S. Cunningham & Sons Construction Co., Boston, at $134,200, low bidder. Noted Aug. 10.

Mass., Haverhill—School—J. M. Roche $73,786, submitted lowest bid for Elm St. School. Noted May 4.

Mass., New Bedford—Low bidders central police station were H. T. Bulman Corporation, 58 South 6th St., New Bedford, $145,000 and C. B. MAGUIRE CO., Turks Head Bldg., Providence, $146,000. Noted May 4.

Mass., Peabody—School—Diocese of Boston let contract 3-story, 70x150-ft. addition to C. LOGUE BUILDING CO., 18 Tremont St., Boston, about $40,000. Noted May 4.

Conn., Hartford—Parish House—Christ Church Society let contract 3-story to D. C. WEEKS & SON CO., 1123 Broadway, New York, about $150,000.

N. J., Clifton—School—Bd. Education let contract addition to School No. 7 to W. L. PLATT CONSTRUCTION CO., United Bank Bldg., Paterson, about $65,000. Noted Sept. 28.

N. J., Princeton—Club House—Dial Club let contract to MATTHEWS CONSTRUCTION CO., Princeton, about $45,000.

Penn., Philipsburg—Bank and Office—Meshannon National Bank let contract 3-story to W. LINKER CO., 331 Cherry St., Philadelphia, about $75,000.

Ohio, Lancaster—Church — German Lutheran Church let contract to J. D. VAN GUNDRY, Lancaster, about $53,000. Noted Sept. 21.

Ind., Bedford—Bedford Lodge No. 14, F. & A. M. let contract building to L. COLVIN, Anderson, about $79,100. Noted May 25.

Ind., Richmond—Hotel and Office—Tremont Realty Co. let contract 10-story to STRUCTURAL ENGINEERING CO., U. B. Bldg. Annex, Dayton, about $250,000.

Mich., Jackson—Bd. Education let contract East Side Intermediate High School to J. S. WAHLMAN, Ishpeming.

Wis., Appleton—Dormitory—Lawrence College let contract Russell Sage Dormitory to C. R. MEYER SONS, Oshkosh, about $100,000. Noted Sept. 28.

Wis., Berlin—School—Bd. Education let contract to A. J. KRAMP, Berlin, about $90,000. Noted Aug. 24.

Wis., La Crosse—Hospital—Lutheran Hospital Association let contract addition to P. NELSON, OWATONNA, about $70,000. Noted Aug. 3.

Wis., La Crosse—(Official)—City rejected bids for Normal School Bldg.

Iowa, Jefferson—School—Bd. Education let contract to GEROES, HINTZ & McKEE, Creston, $70,200. Noted Sept. 7.

Iowa, Sioux City—Florence Crittendon Home let contract improving building to F. X. BABUE & SONS, 307 Jackson St., about $50,000.

Iowa, Titonka—School—City let contract to G. PETERSON, Clear Lake, about $40,000. Noted Sept. 21.

Minn., St. Paul—Chapel—St. Thomas College let contract to F. M. HENNESSY CONSTRUCTION CO., about $75,000.

S. D., Mitchell—(Official)—Hospital—Methodist State Hospital rejected bids. Noted July 27.

Mo., Columbia—Bank and Office—Boone County National Bank let contract 2-story, to SIMON CONSTRUCTION CO., Columbia, about $50,000.

Tex., Beaumont—(Official)—Bd. Education let contract Pollard School Bldg. to McBRIDE & LAW, Beaumont, $52,123.

Okla., Okmulgee—Court House—County let contract to KREPKE-SCHAFFER CONSTRUCTION CO., El Reno, about $123,000.

Ariz., Prescott—Court House—Yavapai County let contract to H. W. AXTELL, Golden, about $250,000.

Wash., Seattle — Tacoma General Hospital let contract first unit of additions to J. E. BONNELL, 760 Commerce St., about $60,000.

The White Motor Truck Co., of Cleveland, Ohio, states that in the construction of the new $4,000,000 high level bridge at Cleveland, now approaching completion, over 60% of the materials have been handled by motor trucks of its manufacture. The material handled by the trucks includes 543,000 sacks of cement, about 77,000 tons of sand and of limestone, and 109,000 cu.yd. of mixed concrete. The company has recently booked an order from Stedman Bent, a hauling contractor of Philadelphia, Penn., for 50 trucks of five tons capacity each. This is claimed to be the largest order for motor trucks ever given by a contractor. When this order is delivered, Mr. Bent will have a total fleet of 61 White motor trucks in service.

Jetty at New West Minster, B. C.—The Marsh Power Contracting Co., New Westminster, B. C., received instructions from the Dominion Government to proceed with the construction of the third unit of the large jetty being constructed at the mouth of the Fraser River for the purpose of confining its channel. This unit will be 10,000 ft. in length and will cost about $500,000. It is proposed to construct another jetty on the other side of the river in order to keep the channel automatically clear. The first unit of the jetty completed last year was 6,000 ft. in length, that of the second unit, which was started in May, 1915, is 7,100 ft. in length. With the third unit completed this jetty will be approximately 14,000 ft. in length.

BARGE CANAL WORK, ALBANY, N. Y.

Contract 59

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal Work, Contract 59, Erie Canal, Sect. 9, from (A) Larkin & Sangster, Buffalo; (B) Murphy Dredging and Contracting Co., Baltimore; (C) MacArthur Bros., New York. The item bids were as follows:

	A	B	C
Clearing (lump sum)	$1,000.00	$1,000.00	$1,000.00
779,800 cu.yd. excavation	1.10	.89	.90
501 M ft. b.m. sheeting and bracing	55.60	50.00	55.00
19,000 lin.ft. round timber bracing	.25	.25	.25
20,560 cu.yd. forming embankment, first class	.15	.15	.18
348,320 cu.yd. forming embankment, second class	.08	.08	.09
67,390 cu.yd. loom surfacing	.30	.25	.20
215 cu.yd. lining	1.50	1.50	1.75
1 M ft. b.m. sawed lumber, yellow pine	50.00	50.00	60.00
32,460 lin.ft. foundation piles	.35	.30	.30
1110 sq.ft. ½-in. steel sheet piling	.80	.80	.80
37,140 sq.ft. ⅜-in. steel sheet piling	1.40	1.40	1.30
70,500 cu.yd. second-class concrete	7.75	7.80	7.22
2,860 cu.yd. first-class reinforced concrete	14.00	14.00	14.00
764 cu.yd. second-class reinforced concrete	12.00	12.00	12.00
208 cu.yd. first-class masonry	25.00	25.00	25.00
130 cu.yd. first-class masonry, relaid	12.00	12.00	12.00
8,680 lin.ft. repointing old masonry	.05	.05	.05
12,460 cu.yd. wash wall	2.00	2.00	1.75
70 sq.yd. third-class stone paving, grouted	3.00	3.00	3.50
260 sq.yd. cobble-stone paving, grouted	1.25	1.25	1.40
385 cu.yd. second-class rip-rap	2.75	2.75	3.00
17,000 cu.yd. rock spoil protection	.75	1.10	.70
17,930 lin.ft. 4-in. porous tile laid	.15	.15	.15
11,400 lin.ft. 6-in. vitrified pipe laid	.20	.20	.20
2,966 lin.ft. 8-in. vitrified pipe laid	.35	.35	.35
1,260 lin.ft. 12-in. vitrified pipe laid	.70	.70	.70
2,860 lin.ft. 18-in. vitrified pipe laid	1.20	1.10	1.10
700,070 lb. structural steel	.066	.065	.05
305,970 lb. metal reinforcement	.04	.04	.04
1,188 lb. metal duct	.12	.12	.12
13,880 lb. iron castings, plain	.04	.04	.04
7,480 sq.ft. portland cement sidewalks	.20	.20	.20
12,858 sq.yd. gravel walks	.25	.25	.25
210 sq.yd. relaying sidewalks	.50	.50	.50
2,696 sq.yd. asphalt pavement	2.25	2.25	2.25
17,530 sq.yd. macadam pavement	.85	.85	1.00
5,950 sq.yd. macadam resurfacing	.45	.45	.45
14,000 lin.ft. temporary wooden fence	.05	.05	.05
1,940 lin.ft. chain fence	.35	.35	.35
412 lin.ft. concrete balustrade on main drive bridge	5.00	5.00	5.50
1,380 lin.ft. concrete balustrade on foot bridges	3.00	3.00	3.00
1,430 sq.yd. waterproofing, one-ply	.20	.20	.23
950 sq.yd. waterproofing, two-ply	.30	.30	.35
60-acre seeding	25.00	25.00	25.00
Operating machinery Lower Red Creek (lump sum)	1,800.00	1,500.00	1,500.00
Maintaining park traffic (lump sum)	1,800.00	1,500.00	800.00
Maintaining highway traffic, Elmwood avenue bridge (lump sum)	480.00	400.00	400.00
Raising superstructure, Elmwood avenue bridge (lump sum)	600.00	500.00	600.00
20 catch basins complete	35.00	35.00	30.00
Coffer-dams, pumping, bailing and draining (lump sum)	72,000.00	66,000.00	50,000.00
Extended totals	$1,833,862	$1,664,315	$1,596,788

Contract 132

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal Work, Contract 132, Erie Canal, Sects. 5 and 6, constructing lighthouses, towers, beacons, etc., from (A) Engineer's Estimate; (B) Lupfer & Remick, Buffalo. The item bids were as follows:

	A	B
Clearing (lump sum)	$50.00	$50.00
Coffer-dam, pumping, bailing and draining (lump sum)	500.00	600.00
1,500 cu.yd. excavation	.45	.40
5 M ft. b.m. sheeting and bracing	60.00	40.00
1,000 lin.ft. foundation piles, 20 ft. long	.70	.84
8 M ft. b.m. wooden sheet piling	70.00	84.00
320 cu.yd. second-class concrete	8.00	9.60
370 cu.yd. first-class reinforced concrete	40.00	44.00
9,800 lb. metal reinforcement	.05	.05½
45,000 lb. structural steel	.09	.108
3,600 lb. iron castings	.06	.072
2,300 lb. wrought iron chain	.09	.10
800 lb. metal duct	.12	.14
3,000 lb. armored cable	.25	.25
300 lb. lead covered cable	.25	.25
3,200 lin.ft. trenching and backfilling for duct and cable	.20	.20
3 doors, windows and hardware for light houses	100.00	120.00
5 short spar buoys	1,900.00	2,200.00
4 double cone buoys	2,900.00	3,250.00
1 river type buoy	450.00	540.00
2 lighting equipments for Sylvan Beach and Frenchman's Island	2,300.00	2,700.00
2 lighting equipments for Cleveland and Constantia Rear Ranges	1,100.00	1,250.00
2 lighting equipments for Brewerton Ranges	1,050.00	1,200.00
2 steel cabinet lighting equipments with ground fresnal lenses	750.00	900.00
5 steel cabinet lighting equipments with pressed fresnal lenses	550.00	600.00
Lighting equipment for Syracuse Rear Range (lump sum)	500.00	550.00
Lighting equipment for Syracuse Front Range (lump sum)	300.00	350.00
2 lighting equipments for pile clusters	100.00	120.00
Extended totals	$63,937	$72,185

Contract 133

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal Work, Contract 133, Erie Canal, Sect. 4, constructing a lock at Mohawk from (A) E. Brown Baker; (B) MORRISON & QUINN, INC., Rochester (awarded contract). The item bids were as follows:

	A	B
10,250 cu yd. excavation	$0.68	$0.60
10.2 M.F.B.M. sawed lumber—Y.P. or D.F.	72.00	60.00
3,800 cu.yd. forming embankment	.12	.12
12,800 lin.ft. foundation piles	.30	.36
945 M.F.B.M. wooden sheet piling	50.00	50.00
3,300 cu.yd. second-class concrete	9.25	8.00
4,200 lb. structural steel	.07	.065
7,600 lb. iron castings, plain	.045	.048
5,000 lb. iron castings, machined	.07	.07
Coffer-dams, pumping, bailing and draining (lump sum)	3,000.00	2,500.00
44 M.F.B.M. sheeting and bracing	20.00	50.00
Extended totals	$52,116.00	$48,910.00

Terminal Contract 201

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal Work, Terminal Contract 201, constructing terminal warehouses at Albany and Whitehall from (A) Engineer's Estimate; (B) Peter Keeler Building Co., Albany. The item bids were as follows:

	A	B
2,900 cu.yd. excavation	$0.60	$0.75
530 lin.ft. wooden fence	.30	.53
360 cu.yd. second-class concrete	8.00	12.00
25 cu.yd. reinforced concrete	15.00	16.00
700 lin.ft. 12-in. vitrified pipe	.35	.65
134,900 lb. structural steel	.05	.067
1,000 lb. iron castings	.04	.078
2,600 lb. metal reinforcement	.07	.066
11 lin.ft. w.-i. pipe railing	1.00	3.80
1,730 sq.yd. painting walls and ceilings	.35	.20
7,300 sq.ft. 8-in. terra-cotta tile	.20	.27
2,800 sq.ft. 4-in. terra cotta tile	.15	.15
570 sq.yd. exterior stucco	.60	.75
870 sq.yd. interior plaster	.50	.85
6,640 sq.ft. mastic flooring	.22	.24
Steel stairs (lump sum)	250.00	363.00
Steel railings (lump sum)	150.00	335.00
Wood railing (lump sum)	20.00	35.00
17 hollow metal windows	35.00	145.00
25 solid metal windows	12.00	45.00
2 hollow metal entrance doors	40.00	116.00
2 hollow metal vestibule doors	30.00	114.00
2 hollow metal repair-room doors	25.00	97.00
15 hollow metal interior doors	15.00	100.00
2 vault doors	75.00	95.00
10 warehouse doors	200.00	260.00
640 lin.ft. metal trim	.20	.50
104 square cement roofing tile	19.00	24.00
1.2 square terra cotta roofing tile	40.00	60.00
560 lin.ft. cornice	1.00	1.40
560 lin.ft. gutters	.40	.63
265 lin.ft. conductors	.40	.39
90 sq.ft. steel ceilings	.15	.24
Plumbing system (lump sum)	400.00	880.00
Heating system (lump sum)	850.00	1,540.00
Electric system (lump sum)	800.00	880.00
Set lockers (lump sum)	70.00	76.00
Automatic sprinkler system (lump sum)	1,200.00	1,766.00
Extended totals for Albany	$27,355.80	$41,016.95
1,850 cu.yd. excavation	.60	.75
360 lin.ft. wooden fence	.30	.53
210 cu.yd. second-class concrete	15.00	16.00
14 cu.yd. reinforced concrete	15.00	16.00
140 lin.ft. 12-in. vitrified pipe	.35	.65
77,900 lb. structural steel	.05	.067
830 lb. iron castings	.04	.078
1,330 lb. metal reinforcement	.07	.066
1,130 sq.yd. painting walls and ceilings	.35.00	.20
4,500 sq.ft. 8-in. terra cotta tile	.20	.27
1,950 sq.ft. 4-in. terra cotta tile	.15	.15
350 sq.yd. exterior stucco	.60	.75
640 sq.yd. interior plaster	.50	.85
3,600 sq.ft. mastic flooring	.22	.24
Steel stairs (lump sum)	250.00	450.00
Steel railing (lump sum)	150.00	335.00
13 hollow metal windows	35.00	145.00
10 solid metal windows	12.00	45.00
2 hollow metal entrance doors	40.00	116.00
2 hollow metal vestibule doors	30.00	114.00
12 hollow metal interior doors	15.00	100.00
2 vault doors	75.00	95.00
4 warehouse doors	200.00	260.00
450 lin.ft. metal trim	.20	.50
58 square cement roofing tile	19.00	24.00
1.2 square terra cotta roofing tile	40.00	60.00
360 lin.ft. cornice	1.00	1.40
360 lin.ft. gutters	.40	.63
160 lin.ft. conductors	.40	.39
90 sq.ft. steel ceilings	.15	.24
Plumbing system (lump sum)	400.00	825.00
Heating system (lump sum)	700.00	1,210.00
Electric system (lump sum)	540.00	594.00
Set lockers (lump sum)	50.00	57.00
Automatic sprinkler system (lump sum)	600.00	1,300.00
Extended totals for Whitehall	$16,444.80	$25,688.92
Extended grand totals	$43,800.00	$66,705.00

The City of Edmonton, Alta., is operating a hand paving plant for bituminous surfacing for street repairs with interesting and efficient results. The plant consists of a street tar kettle and stone heater; the materials are mixed by hand on a boiler sheet plate about 5-ft. square and hand tamped in place. This makes a very flexible and economical arrangement producing work of excellent appearance and fine wearing qualities, capable of resisting all ordinary traffic conditions. The cost of repair work of this nature averages about 75c. per sq.yd. The city is planning for the operation of a municipal paving plant.

Contract 81

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal Work, Contract 81, Erie Canal, Sect. 5, constructing a lock at Rome, from (A) CHESLEY, EARL & HEIMBACH, INC., Buffalo (awarded contract); (B) Scott Bros.; (C) Hydraulic Construction Co.; Grant, Smith & Co. and Locker, $59,833; Charles Kahn, $59,766; Dale Engineering Co., $64,489; Frank L. Cohen, $61,106. The item bids were as follows:

	A	B	C
15,800 cu.yd. excavation	$0.50	$0.40	$0.66
11 M ft. b.m. sawed lumber (Y. P. or D. F.)	70.00	72.00	55.00
3,100 cu.yd. forming embankment	.09	.10	.15
65 M ft. b.m. sheeting and bracing	45.00	50.00	45.00
17,300 lin.ft. foundation piles	.25	.20	.27
96 M ft. b.m. wooden sheet piling	45.00	50.00	45.00
3,950 cu.yd. second-class concrete	7.00	7.40	7.75
150 cu.yd. wash wall	2.50	2.50	3.00
3,820 lb. structural steel	.06	.072	.06
5,680 lb. iron castings, plain	.04	.048	.04
6,400 lb. iron castings, machined	.07	.084	.07
6,100 lb. tumble gate machinery	.13	.15	.13
150 cu.ft. chipping concrete	.95	1.00	1.00
30 lin.ft. drilling bolt holes in concrete	.50	1.00	1.00
Coffer-dams, pumping, etc. (lump sum)	3,600.00	3,600.00	2,500.00
Extended totals	$53,998	$54,317	$57,905

SEWER SYSTEM, PITMAN, N. J.

Bids were received Sept. 18 by Borough Council for constructing sewer system from (A) F. T. Buckius, Jr., Philadelphia; (B) John M. Kelley Contracting Co., Camden; (C) MARTIN, MILLER & PIZZIMENTI, Caldwell (awarded contract). The item bids were as follows:

	A	B	C
1,090 lin.ft. 6-in. terra cotta pipe, 0 to 4 ft. deep	$0.40	$0.46	$0.40
611 lin.ft. 6-in. terra cotta pipe, 4 to 6 ft. deep	.50	.53	.45
1,129 lin.ft. 8-in. terra cotta pipe, 0 to 4 ft. deep	.45	.56	.50
16,172 lin.ft. 8-in. terra cotta pipe, 4 to 6 ft. deep	.50	.46	.50
44,813 lin.ft. 8-in. terra cotta pipe, 6 to 8 ft. deep	.65	.55	.55
2,338 lin.ft. 8-in. terra cotta pipe, 8 to 10 ft. deep	.90	.83	.95
799 lin.ft. 8-in. terra cotta pipe, 10 to 12 ft. deep	1.30	1.22	1.50
465 lin.ft. 8-in. terra cotta pipe, 12 to 14 ft. deep	2.00	1.53	2.25
591 lin.ft. 8-in. terra cotta pipe, 14 to 16 ft. deep	2.40	1.68	3.00
1,843 lin.ft. 10-in. terra cotta pipe, 0 to 4 ft. deep	.80	.67	.55
3,342 lin.ft. 10-in. terra cotta pipe, 4 to 6 ft. deep	1.00	.71	.65
3,297 lin.ft. 10-in. terra cotta pipe, 6 to 8 ft. deep	1.50	.80	.90
730 lin.ft. 10-in. terra cotta pipe, 8 to 10 ft. deep	2.00	1.00	1.50
174 lin.ft. 10-in. terra cotta pipe, 10 to 12 ft. deep	2.50	1.19	2.40
625 lin.ft. 12-in. terra cotta pipe, 0 to 4 ft. deep	.90	.78	.70
75 lin.ft. 12-in. terra cotta pipe, 4 to 6 ft. deep	1.30	.86	.75
605 lin.ft. 12-in. terra cotta pipe, 6 to 8 ft. deep	2.00	.80	.95
683 lin.ft. 15-in. terra cotta pipe, 0 to 4 ft. deep	1.30	1.26	.85
863 lin.ft. 15-in. terra cotta pipe, 4 to 6 ft. deep	1.50	1.37	.95
240 lin.ft. 15-in. terra cotta pipe, 6 to 8 ft. deep	1.75	1.54	1.50
145 terra cotta 6x5-in. "Y" branches	.25	.40	.56
2,592 terra cotta 8x5-in. "Y" branches	.30	.55	.50
220 terra cotta 10x5-in. "Y" branches	.50	.73	70
35 terra cotta 12x5-in. "Y" branches	.83	.89	1.40
250 lin.ft. deep cut connections	.35	.22	1.00
10 lin.ft. 8-in. c.-i. pipe, 6 to 8 ft. deep (R.R. crossing)	4.00	3.43	5.00
74 lin.ft. 8-in. c.-i. pipe, 8 to 10 ft. deep (R.R. crossing)	4.00	4.86	5.50
96 lin.ft. 8-in. c.-i. pipe, 8 to 10 ft. deep (R.R. crossing)	4.25	4.90	5.00
20 lin.ft. 10-in. c.-i. pipe, 10 to 12 ft. deep (R.R. crossing)	5.25	3.58	5.50
80 lin.ft. 10-in. c.-i. pipe, 12 to 14 ft. deep (R.R. crossing)	5.25	5.26	7.50
16 manholes, 0 to 4 ft. deep	30.00	34.73	30.00
73 manholes, 4 to 6 ft. deep	40.00	41.61	30.00
96 manholes, 6 to 8 ft. deep	50.00	48.72	35.00
16 manholes, 8 to 10 ft. deep	60.00	60.32	45.00
5 manholes, 10 to 12 ft. deep	70.00	69.04	55.00
1 manhole, 12 to 14 ft. deep	90.00	77.59	65.00
2 manholes, 14 to 16 ft. deep	110.00	90.00	75.00
70 ft. drop pipe for drop manholes	1.00	.78	1.50
18 lampholes	12.00	8.05	15.00
1 flush tank, type "A-A," 4 to 6 ft. deep	180.00	149.21	135.00
3 flush tank, type "A," 6 to 8 ft. deep	170.00	195.16	145.00
5 flush tank, type "B-B," 5.5 to 6 ft. deep	110.00	106.00	80.00
16 flush tank, type "B," 6 to 8 ft. deep	95.00	109.25	75.00
5 flush tank, type "C," 4 to 6 ft. deep	142.00	105.04	100.00
55,000 ft. trench repaved with gravel	.01	.035	.04
2,000 8-in. pipe, Class "B," bituminous joints	.10	.085	.08
4,500 10-in. pipe, Class "B," bituminous joints	.12	.09	.10
1,600 15-in. pipe, Class "B," bituminous joints	.15	.15	.12
Extended totals	$77,500	$68,719	$67,497

PAVING, ST. LOUIS, MO.

Bids were received by Board of Public Service for paving Locust St. from Jefferson to Theresa Ave. from (A) Trinidad Asphalt Manufacturing Co.; (B) F. P. McCormick. The item bids were as follows:

	A	B
2,050 cu.yd. grading	$2.10	$2.00
25 sq.yd. remove granite blocks and bedding course	.25	.35
18,590 sq.yd. remove asphalt surface and binder course	.29	.30
215 sq.yd. remove old brick and bedding course	.20	.25
1,000 sq.yd. remove old concrete	.55	.50
8,490 lin.ft. granite curb 16 in. deep	1.17	1.15
215 lin.ft. granite curb 21 in. deep	1.27	1.35
1,360 tons asphalt binder course	10.20	10.20
21,515 sq.yd. refined asphalt wearing surface	.99	.98
80 sy.yd. vitrified brick wearing surface and bedding course	1.80	1.75
10 sq.yd. relaying granite block and bedding course	.40	.50
5,745 sq.ft. restoring granitoid walks	.23	.15
4,805 sq.ft. restoring brick walks	.17	.15
1,855 cu.yd. concrete	5.95	5.90
200 cu.ft. macadam, etc.	.06	.06
10 Ms planking, 2 in.	20.00	20.00
Extended totals	$68.133.00	$69.209.00

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.

Route 12, Section 1B

Bids received by Public Service Commission, 120 Broadway, Sept. 13, for Route 12, Section 1B, a part of Broadway-Fourth Avenue Rapid Transit R.R. from (A) DEGNON CONTRACTING CO., 30 East 42d St. (awarded contract); (B) Smith, Hauser & MacIsaac; (C) F. L. Cranford, Inc.; Underpinning and Foundation Co., $1,074,977; Oscar Daniels Co., $1,089,659; E. E. Smith Contracting Co., $1,245,920. The item bids of the 3 lowest bidders were as follows:

	A	B	C
28,100 cu.yd. earth excavation above mean high water	$2.25	$3.50	$4.57
5,900 cu.yd. earth excavation below mean high water	3.00	3.50	4.57
640 cu.yd. earth excavation for sewers	2.50	5.00	4.57
Underpinning buildings on Hanson Place (lump sum)	30,000.00	20,000.00	16,500.00
16,100 cu.yd. tunnel excavation above mean high water	6.00	3.50	7.00
14,200 cu.yd. tunnel excavation below mean high water	8.00	3.50	7.00
13,500 cu.yd. concrete masonry	9.50	8.00	8.88
1,460 cu.yd. concrete masonry outside waterproofing	9.50	8.00	8.88
10 cu.yd. rubble stone masonry	6.00	10.00	8.00
10 cu.yd. dry rubble masonry	4.00	10.00	7.00
10 cu.yd. brick masonry	14.00	20.00	20.00
450 cu.yd. removal of old masonry	12.00	20.00	15.00
10 cu.yd. hollow tile masonry	14.00	20.00	15.00
1,000 bbl. grout of Portland cement	2.50	3.00	3.00
1,000 lin.ft. timber piles	.30	1.00	.25
2 M ft. b.m. timber foundations	40.00	100.00	75.00
50 cu.yd. broken stone	2.00	3.00	3.00
8,500 sq.yd. one-ply waterproofing	.60	.35	.60
100 sq.yd. two-ply waterproofing	.80	.70	.70
3,000 sq.yd. three-ply waterproofing	1.25	1.00	.80
100 sq.yd. four-ply waterproofing	1.60	1.20	.90
100 sq.yd. five-ply waterproofing	1.90	1.50	1.00
100 sq.yd. six-ply waterproofing	2.25	1.80	2.00
100 sq.yd. dry-ply waterproofing	.50	.35	.40
1,550 cu.yd. brick in asphalt mastic	12.00	23.00	26.00
50 lin.ft. 12-in. vitrified drain pipe	1.10	.60	1.00
50 lin.ft. 10-in. vitrified drain pipe	.90	.50	.80
50 lin.ft. 8-in. vitrified drain pipe	.70	.50	.70
50 lin.ft. 6-in. vitrified drain pipe	.50	.45	.60
50 lin.ft. 4-in. vitrified drain pipe	.30	.40	.50
50 lin.ft. 6-in. c.-i. drain pipe	1.25	1.00	1.00
50 lin.ft. 4-in. c.-i. drain pipe	1.00	.75	.75
50 lin.ft. 10-in. c.-i. drain pipe	1.75	1.50	1.50
50 lin.ft. 3-in. c.-i. pipe special extra heavy	1.00	.40	1.00
50 lin.ft. 4-in. c.-i. pipe special extra heavy	1.00	.50	1.25
50 lin.ft. 6-in. c.-i. pipe special extra heavy	1.50	.80	1.50
50 lin.ft. 8-in. c.-i. pipe special extra heavy	1.75	1.50	2.00
50 lin.ft. 3-in. galvanized w.-i. pipe	1.75	1.00	1.50
50 lin.ft. 6-in. galvanized w.-i. pipe	2.25	1.50	2.00
30,500 duct ft. tunnel ducts	.15	.15	.12
1,600 tons riveted steel	80.00	95.00	95.00
740 tons steel beams and shapes	80.00	88.00	82.00
20 tons steel rods	86.00	125.00	100.00
5 tons miscellaneous iron castings	75.00	70.00	80.00
5 tons miscellaneous iron furnishings	75.00	70.00	100.00
9,200 lb. special wire forms	.20	.25	.15
50 lin.ft. 1¾-in. oak or ash hand-rail	1.00	.50	.50
1,240 sq.ft. vault lights	1.50	1.10	1.60
590 sq.yd. sidewalk restored	2.00	1.50	2.00
990 sq.yd. repavement asphalt	3.00	2.75	3.00
50 sq.yd. repavement granite block	3.50	2.50	2.50
50 lin.ft. bluestone curb	1.50	1.25	1.25
50 lin.ft. 8-in. granite curb	1.75	2.00	2.50
7,000 lin.ft. ¾-in. w.-i. electric conduits	.40	.15	.30
500 lin.ft. 1½-in. w.-i. electric conduits	.60	.25	.50
500 lin.ft. 2-in. w.-i. electric conduits	.75	.40	.60
1,500 lin.ft. 1-in. w.-i. electric conduits	.50	.25	.40
400 c.-i. outlet boxes	1.00	1.00	1.00
15 c.-i. pull boxes	5.00	1.50	1.50
100 lin.ft. 6-in. c.-i. pipe extra heavy	1.50	2.00	2.00
75 lin.ft. 3-in. c.-i. pipe extra heavy	1.00	1.00	1.50
300 lin.ft. 12-in. vitrified sewer pipe	5.00	2.00	3.00
150 lin.ft. 24-in. vitrified sewer pipe	6.00	4.50	6.00
1 ton c.-i. sewer pipe (straight)	80.00	75.00	60.00
1 ton c.-i. sewer pipe (special)	100.00	100.00	100.00
175 lin.ft. 3 ft., 6 in. x 2 ft., 4-in. sewer	10.00	20.00	6.00
Maintaining Long Island R.R. structure (lump sum)	88,000	165,000	15,000
250 lin.ft. 6-in. water pipe	1.25	2.00	1.50
100 lin.ft. 12-in. water pipe	1.50	2.50	2.50
100 lin.ft. 36-in. water pipe	2.00	5.00	3.00
6 service connections water	25.00	25.00	25.00
100 lin.ft. 3-in. c.-i. gas pipe	1.00	1.00	1.00
150 lin.ft. 4-in. c.-i. gas pipe	1.00	1.25	1.00
250 lin.ft. 6-in. c.-i. gas pipe	1.25	2.00	1.25
100 lin.ft. 8-in. c.-i. gas pipe	1.50	2.50	1.50
250 lin.ft. 6-in. w.-i. by-passing pipe	2.50	3.00	2.50
250 lin.ft. 8-in. w.-i. by-passing pipe	3.00	3.50	3.00
6 service connections gas	25.00	30.00	20.00
5 tons c.-i. hub and spigot (straight pipe)	40.00	40.00	50.00
2 tons c.-i. hub and spigot (special pipe)	60.00	100.00	100.00
100 lin.ft. 8-in. high pressure fire pipe	2.50	2.50	3.50
100 lin.ft. 20-in. high pressure fire pipe	5.00	5.00	4.00
4 tons c.-i. spigot and groove (straight pipe)	40.00	100.00	60.00
2 tons c.-i. spigot and groove (special pipe)	60.00	100.00	100.00
3,000 duct ft. electric ducts and conduits	.50	1.00	.75
100 lin.ft. 2½-in. w.-i. pipe electric ducts and conduits	1.00	1.25	1.00
100 lin.ft. 3-in. w.-i. pipe electric ducts and conduits	1.00	1.50	1.00
100 lin.ft. 3½-in. w.-i. pipe electric ducts and conduits	1.00	1.75	1.00
100 lin.ft. 2-in. Edison conduits	1.00	1.00	1.00
100 lin.ft. 2½-in. Edison conduits	1.00	1.50	1.00
6 service connections electric ducts	50.00	25.00	25.00
Extended totals	$810,625	$823,449	$839,305

The Sullivan Machinery Co. anounces that Burt B. Brewster, for the past two years manager in Alaska with headquarters at Juneau, has been transferred to Salt Lake City, Utah. Walter F. O'Brien will succeed Mr. Brewster at Juneau.

SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until Nov. 4, 1916.

Road Work

Atlantic City, N. J.

The Board of Chosen Freeholders of Atlantic County, N. J., will receive bids at Eleven o'Clock A.M. during a meeting to be held in Memorial Hall, New York Avenue, Atlantic City, N. J., November 4th, 1916, for extraordinary repairs to any number or all of the following roads, or to the three as a whole:

1—White Horse Pike from Absecon to Hammonton.

2—White Horse Pike from Hammonton to the Camden County Line.

3—Ocean Highway from Absecon to Sea View Golf Club.

Plans and specifications may be seen at the office of the Engineer for Atlantic County, N. J., Guarantee Trust Building, Atlantic City, N. J., where they may be obtained in return for a deposit of $10.00 for each set. Such deposit will be refunded if plans and specifications are returned by noon of November 6th, 1916. Bids must be made out on bidding blanks incorporated in the specifications.

The total work involved in the three roads is approximately as follows: Embankment, 8,736 cubic yards; Warrenite Pavement and Base Course, 287,475 square yards; Graveled Shoulders, 22,572 cubic yards; Gravel "C" for foundations, 14,853 cubic yards; Concrete Gutters, 5,366 square yards; Wooden Guard Rail, 20,500 lineal feet; together with quantity of Concrete Headers, Drainage Provisions, Catch Basins and other incidental items.

A certified check to the amount of $1,000 will be required with each bid and a contractor will be required to furnish a bond in the full amount of the contract price, which must guarantee maintenance for a period of five (5) years.

If the contract is awarded it will be conditioned upon the sale and delivery of bonds by Atlantic County for payment of the work under the contract, and a contract will not be executed and delivered to a contractor until said bonds have been issued, sold and delivered.

The right is reserved to reject any or all bids.

A. H. NELSON,
Engineer for Atlantic County.
DOMINIC CORSIGLIA,
Chairman of Road Committee.

⁂

Bids received until Oct. 26, 1916.

Street Lighting System

Pocatello, Idaho.

Sealed proposals will be received by the City Council until five P.M. on October twenty-sixth, 1916, for the construction of an incandescent street-lighting system in Local Street Improvement District Number Fifteen. The work will consist of the installation of about three hundred fifty-five (355) ornamental standards with underground cable and all accessories. Certified Check of Three Thousand Dollars. Construction bond, sixty per cent. of the contract price. The City Council reserves the right to reject any and all proposals and to waive any informality in any proposal received.

J. H. GILES, City Engineer.
A. R. DAWSON, City Clerk.

Bids received until Nov. 2, 1916.

Cast-Iron Water Pipe

OFFICE OF THE BOARD OF STREET AND WATER COMMISSIONERS OF THE CITY OF NEWARK, N. J.,
CITY HALL.

Newark, N. J., October 14, 1916.

Sealed proposals for straight cast-iron water pipe and special castings for the low-pressure system will be received at this office from 3:15 to 3:30 P.M. on Thursday, November 2, 1916, and opened at the last-named hour at a public meeting of the Board to be held at said time and place, for:

300 tons (2,000 lb.) of 6-inch cast-iron water pipe
428 tons (2,000 lb.) of 8-inch cast-iron water pipe
153 tons (2,000 lb.) of 10-inch cast-iron water pipe
197 tons (2,000 lb.) of 12-inch cast-iron water pipe
Ordinary special castings from 4 to 12 inches diameter—65 tons (2,000 lb.)
375 tons (2,000 lb.) of 16-inch cast-iron water pipe
10 tons (2,000 lb.) of 20-inch cast-iron water pipe
560 tons (2,000 lb.) of 24-inch cast-iron water pipe
98 tons (2,000 lb.) of 36-inch cast-iron water pipe
Ordinary special castings from 16- to 36-inch diameter—50 tons (2,000 lb.)

For the purpose of comparing bids in order to ascertain the low bidder, the summation of prices at the respective quantities for ordinary pipe and specials from 4- to 12-inch dia. will be included in one contract, and the pipe and specials from 16- to 36-inch (inclusive) in another contract, or the entire quantity may be awarded to one bidder, as may be deemed most advantageous for the city.

All f.o.b. cars Newark, N. J., according to specifications and drawings, which will be furnished upon application to the engineer and superintendent of the department of water.

Proposals must be accompanied by the consent in writing of two or more sureties (residents of Essex County, N. J.) or surety company authorized to do business in New Jersey, who qualify as to their responsibility in the amount of the proposal and agree to become sureties for the faithful performance of the contract, if awarded.

Each proposal must be enclosed in a sealed envelope, properly endorsed "Proposal for Cast-Iron Water Pipe and Special Castings," with the name of the bidder and directed to the Board of Street and Water Commissioners of the City of Newark, N. J.

The contract to be awarded to the lowest bidder, the Board reserving the right to reject any and all bids.

By direction of the Board.

MORRIS R. SHERRERD,
Chief Engineer.

⁂

Road or Concrete

CONTRACT WANTED

About $10,000 to $20,000, road or concrete. Would take subcontract for winter months. CL569—Eng. News.

Bids received until Dec. 7, 1916.

Subway

DEPARTMENT OF CITY TRANSIT
754 Bourse Building
Philadelphia, Oct. 9, 1916.

Sealed proposals, properly endorsed and addressed to the undersigned at the office above mentioned, will be received until 12 o'clock noon on Thursday, December 7, 1916, and opened immediately thereafter, for construction of a section of the Broad Street Subway, comprising a portion of the station under City Hall and the Market Street Subway, and work appurtenant thereto, known as Contract 102. This section will be about 300 feet long and 106 feet wide, embracing four tracks with two station platforms, and will include the underpinning of the west side of City Hall and also the Market Street Subway.

Plans and specifications can be seen at Room 748, Bourse Building, and copies of same with blank forms for proposals will be supplied to intending bidders upon deposit of $50 (cash or certified check) per set, pending return.

Bidders must be skilled and regularly engaged in this class of work.

No bid will be considered unless accompanied by a certificate from the City Solicitor that a proposal bond in the sum of five hundred (500) dollars has been filed in accordance with the provisions of an ordinance approved May 25, 1860.

The Director reserves to himself the right to reject any or all bids as he may deem best for the interest of the City of Philadelphia.

WM. S. TWINING, Director.

⁂

Bids received until Oct. 27, 1916.

Dairy Building

Cobleskill, N. Y.

Sealed proposals for Construction, Heating, Plumbing and Electric Work, Dairy Building, at the Schoharie State School of Agriculture, Cobleskill, N. Y., will be received by Hon. D. D. Frisbie, President of the Board of Trustees, at the Agricultural Hall, State and Lodge Streets, Albany, N. Y., until 2 o'clock on Friday, October 27th, 1916, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent. (5%) of the amount of proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent. (50%) of the amount of contract within thirty (30) days after official notice of award of contract, and in accordance with the terms of Specifications Nos. 2563, 2590, 2591 and 2592. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the office of the Director, First National Bank Building, Cobleskill, N. Y.; at the New York Office of the Department of Architecture, Room 1224, Woolworth Building; and at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

Dated October 13, 1916.

Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Pennsylvania—Pennsylvania R.R. plans to improve and extend yards at Morrisville, about $1,000,000. A. C. Shand, Broad St. Sta., Philadelphia, Ch. Engr.

Pennsylvania—Wilkes-Barre & Hazleton Ry. plans to extend line from Hazleton to Tamaqua. C. B. Houke, Hazleton, Gen. Mgr.

Delaware—Delaware R.R. plans to improve line from Wilmington to Delmar. A. C. Shand, Broad St. Sta., Philadelphia, Ch. Engr.

D. C., Washington—Capitol Traction Co. applied to Pub. Utilities Comn. for permission to extend lines south on 18th St. to C St. to relieve congestion at 15th St. and New York Ave. Company plans terminal loop around triangle between 18th and C St. and Virginia Ave. About $100,000. J. Fleming, 36th and M St., N. W., Washington, Pur. Agt.

Virginia—Hopewell & City Point Ry., recently incorporated, plans 2½ mi. line. J. C. Rees, Jr., Petersburg, Pres.

Virginia—Norfolk & Western Ry. making surveys for extending New River, Holston & Western Ry from Rocky Gap to North Tazewell, 29 mi. J. E. Crawford, Roanoke, Ch. Engr.

Virginia—Western Maryland R.R. and Old Dominion Ry. plan connecting link between 2 lines, about 40 mi. track to be laid. H. R. Pratt, Baltimore, Ch. Engr.

Georgia—Savannah Electric Co., Savannah, plans to extend Millhaven line to Port Wentworth, 4 mi. H. C. Foss, Savannah, Gen. Mgr.

Mississippi—Arizona Hydraulic Power Co., recently incorporated, plans railway from Clarksdale to Miami and Globe, Ariz., also to develop hydro-electric power from Verde River. E. Meek, Prescott, Ariz., interested.

Tennessee—Knoxville Interurban Railway Co., recently incorporated, applied for charter for line from Vestal south of Knoxville to Maryville, about 13 mi. M. T. De Vault and N. B. Morrell, Knoxville, interested.

Tennessee—Tennessee Central R.R. plans extension from Harriman to Chattanooga. R. Smith, Nashville, Supt.

Tennessee—Van Buren County, Spencer, election Dec. 2 to vote on $75,000 bonds to subscribe to capital stock of Van Buren County Railroad Co. for line from Onward to Doyle, White County, to junction of Bear Hollow and Dry Fork Gulch, about 13 mi. M. M. Allison, Chattanooga, interested. Noted Sept. 7.

Ohio—J. J. Weatherly, Secy. Chamber Commerce, Troy, interested in plan to build traction line from Troy to Pleasant Hill through Bradford and Greenville.

Michigan—Detroit United Ry., Detroit, making surveys for new car line to Royal Oak. F. W. Brooks, Detroit, Gen. Mgr. Noted Aug. 10.

Illinois—Chicago, North Shore and Milwaukee Electric Ry. plans to lay 350 tons new rails this fall, also double-track single track sections and replace 100-ft. pile bent trestle by concrete box and fill at Highwood. B. J. Fallon, Chicago, Ch. Engr.

Illinois—Chicago & Northwestern Railway Co. plans to spend about $60,000 for improving tracks around Nelson. W. H. Finley, Chicago, Ch. Engr.

Illinois—City, Springfield, election Nov. 7 to vote on franchise to Springfield Consolidated Railway Co. to extend line east to Bergen Park. A. D. Mackee, Springfield, Gen. Mgr. and Pur. Agt. Noted Dec. 30.

South Dakota—Chicago, Milwaukee & St. Paul Ry. plans filling in east of present tracks at Sioux Falls to extend yard facilities. About $100,000. C. F. Loweth, Railway Exchange Bldg., Chicago, Ch. Engr.

Montana—Great Northern Railway Co. plans line from Great Falls to Chester. A. H. Hogeland, St. Paul, Ch. Engr.

Texas—Dallas Northwestern Ry. plans line from Dallas to Krum thence to Bowie and Wichita Falls, Texas, about 120 mi. J. T. Witt, Dallas, Ch. Engr.

Texas—Eagle Pass & Gulf R.R. securing right-of-way for line through Maverick County, Eagle Pass. A. L. Matlock, 518 Bedell Bldg., Atty.

Texas—Rockport Development Co., Rockport, plans line from Rockport to Lamar and Refugio, about 30 mi. E. G. Gibson, Rockport, Secy.

Oklahoma—Ardmore Railway Co. making surveys for line from Ardmore to Fox oil fields. I. M. Putnam care of St. Railway Co., Ardmore, Gen. Mgr. Noted Oct. 12.

Oklahoma—Missouri, Kansas & Texas Ry. plans to enlarge yard at Tulsa. L. F. Lonnbladh, Dallas, Ch. Engr.

Bids In and Contracts Awarded

West Virginia—Chesapeake & Ohio R.R. let contract line from Mann to Gilbert, 13 mi., to BALLARD, HERRING & SEVERS, INC., Yancy Mills, Va. Noted June 8.

Tex., Houston—San Antonio, Gonzales & Houston Interurban Railway Co. let contract first section line from Houston, 60 mi. west, to J. H. BERRYMAN & CO. E. Kennedy, Houston, Vice-Pres.

Utah—Deep Creek R.R. recently incorporated with $450,000 capital stock, let contract line from Wendover on Western Pacific to Gold Hill, 43 mi. to UTAH CONSTRUCTION CO.

Oregon—Roseburg & Eastern R.R. let contract line from Roseburg to Rock Creek to KENDALL BROS., Pittsburgh, Penn. Noted Oct. 19.

LIGHT, HEAT AND POWER

Proposed Work

Vt., East Middlebury—Bread Leaf Mountain Power Co. plans hydro-electric plant. About $500,000.

Mass., Springfield—William Carter Co. making plans for 1-story boiler-house, 60x60-ft. About $40,000. Henry M. Hope, Boston, Engr.

N. Y., Allegany—See item under "Buildings."

N. Y., Hornell—Hornell Electric Co. plans electric transmission lines to Arkport and Canaseraga.

Penn., Enola—Pennsylvania R.R. made plans for improving and extending power plant.

Penn., Philadelphia—Barrett Manufacturing Co. plans to improve and enlarge boiler room. W. B. Murphy, Market and Bermuda St., in charge.

S. C., McCormick—M. G. and J. J. Dorn applied to Council for franchise for electric-light plant. About $12,000 or $15,000.

Ga., Augusta—R. J. Edenfield and associates applied to Council for franchise for electric-light and power system in Augusta.

Fla., Plant City—Plant City Public Service Co. acquired system of Plant City Ice and Power Co. and will enlarge same. R. Nettles, Secy.

Fla., Titusville—Southern Utilities Co., Jacksonville, purchased plant of Titusville Electric Light Co. and will spend about $15,000 for improvements.

Ala., Huntsville—Alabama Power Co., Birmingham plans enlarging its plant. J. A. Sirnit, Birmingham, Elec. Engr.

Ala., Prattville—The Clark-Pratt Cotton Mills plan to rebuild its hydro-electric dam washed away by floods. Estimated cost, $25,000.

Ohio, Cincinnati—City plans 2-story gas plant. A. G. Hall, General Hospital, Avondale, Cincinnati, Ch. Engr.

Ohio, Cleveland—Schneider-Becker Dairy Co., 7100 Clarke Ave., making plans for power plant. W. D. McCormick, 9th floor, Century Bldg., Pittsburgh, Arch.

Mich., Vasser—City voted $25,000 bonds to improve electric-light plant and water system.

Ill., Bloomington—City Officials and proprietors of factory buildings plan central power plant to furnish light and power to manufacturing concerns.

Ill., Gillespie—Southern Illinois Light and Power Co. plans power plant at Gillespie. About $25,000.

Iowa, Spencer—City plans election to vote on $50,000 bonds for improving and extending electric-light plant and system.

Iowa, West Chester—Citizens voted bonds for electric-light plant.

Minn., Adams—City plans electric-lighting system.

Minn., Hibbing—Village soon receives bids for 1-story power station, about $200,000. Tyrie & Chapman, Auditorium Bldg., Minneapolis, Arch.

Minn., Hutchinson—Hutchinson Gas Co., care of Gas and Electric Construction Co., making plans for gas plant. About $30,000. E. E. Collins, 509 N. W. Bank Bldg., Minneapolis, Pres. Western Gas Construction Co., Ft. Wayne, Engr. Noted Sept. 21.

Kan., Independence—Western States Portland Cement Co. to rebuild power plant destroyed by fire with loss of $100,000. C. B. McVay, Mgr.

Kan., McPherson—Central Academy and College making plans for 1-story heating plant. F. D. Rixse, 212 South Clarence St., Wichita, Arch.

Kan., Neodesha—City plans 1-story power house. Black & Veatch, 507 Interstate Bldg., Kansas City, Mo., Engr.

Kan., Wichita—(Official)—Kansas Gas and Electric Co. does not plan to improve plant and extend system as stated in Oct. 5 issue.

Mo., Kansas City—Kansas City Light and Power Co. making plans for heating plant. About $12,000.

Mo., Mt. Vernon—Citizens voted bonds for electric-light plant.

Okla., Mountain View—Council plans electric-light plant, about $8,000.

Calif., Alameda—Union Iron Works, San Francisco, granted permit for power house at shipbuilding plant at Alameda. About $22,500.

Ont., Leamington—Town Council plans improving light and power system. R. M. Selkirk, Clk.

Bids In and Contracts Awarded.

Mass., Winchendon—Winchendon Electric Light Co. let contract hydro-electric power plant to WILEY & FOSS, Central City, Fitchburg.

N. Y., Glens Falls—(Official)—International Paper Co. let contract hydro-electric power station to H. P. CUMMINGS CONSTRUCTION CO., Ware, Mass.

Penn., Polk—State Institute for Feeble Minded let contract boiler house and power plant to C. F. HAMILTON, INC., Franklin, about $33,217.

Ohio, Akron—Firestone Rubber and Tire Co. let contract 1-story power building to HUNKIN-CONKEY CONSTRUCTION CO., 321 Cuyahoga Bldg., Cleveland.

Mich., Grand Rapids—National Brass Co. let contract power house to F. W. BURGSTAHLER & SON, about $7,000. Noted Sept. 21.

Mich., Howell—City let contract power plant to F. SCHAFER, Howell, about $4,000.

Mich., Kalamazoo—Borgess Hospital Association let contract 2-story power plant to H. L. VANDER HORST, Burdick and Walnut St.

Ill., Savanna—People's Gas and Electric Co. let contract 12-mi. 33,000-volt transmission line to C. A. HOPPIN & CO., Peoria. Noted Apr. 13.

Wis., Janesville—Sisters of Mercy Hospital let contract boiler house to FORD BROS. & SCHOOF, 209 East Milwaukee St., about $4,000.

Minn., Minneapolis—Minneapolis St. Railway Co. to build 1-story boiler room by day labor. About $5,000. W. J. Smith, 1 South 11th St., Master Mechanic.

N. D., Wahpeton—Otter Tail Power Co., Fergus Falls, Minn., let contract power house to T. & L. D. LIBBY CO., 354 Temple Court, Minneapolis.

Que., Quebec—Jeffrey Hale Hospital, Lockwell St., let contract power house to WRIGHT & LONERGAN, about $17,000.

BRIDGES

Proposed Work

Mass., Lawrence—City plans bridge over Boston & Maine R.R. in South Lawrence. A. O. Marble, City Engr.

Conn., New Haven—New York, New Haven & Hartford R.R. plans expenditure of $1,000,000 for bridges in Shore Line Divisions. Edward Gagel, Ch. Engr.

N. Y., Bennington—City to vote Nov. 7 on $7,500 bonds for bridges.

N. Y., Buffalo—Comr. Pub. Wks. receiving bids Oct. 31 for bascule bridge over Buffalo River on Abbott Rd. G. H. Norton, City Engr. Noted Sept. 28.

N. Y., Watertown—City retained William Mueser, Park Row Bldg., New York, to make plans for bridge on Court St. About $352,000.

Penn., Easton—(Official)—Northahmpton County receiving bids Oct. 30 for rein.-con. bridge over upper branch Buskill Creek, known as Bridge No. 184. G. F. P. Young, Easton, County Controller.

Penn., South Bethlehem—Pub. Ser. Comn. plans viaduct between Bethlehem and South Bethlehem. About $1,000,000.

Md., Baltimore—See item under "Streets and Roads."

Va., Petersburg—City plans viaduct across Appomattox River. R. P. Budd, City Engr.

W. Va., Bethany—Raleigh County plans concrete bridge over Buffalo River at Main St. Address County Clk., Wellsburg.

W. Va., Kingston—Fayette County receiving bids Nov. 17 for concrete bridge across Willey Fork of Fishing Creek. S. Meyers, New Martinsville, County Clk.

N. C., Statesville—Iredell and Catawba Counties plan 2 highway bridges over Catawba River between 2 counties. N. B. Mills, Statesville, Comr. Noted Aug. 10.

Ala., Montgomery — (Official) — Montgomery County election Nov. 7 to vote on $50,000 bonds for bridge over Tallapoosa River between Montgomery and Elmore Counties. Address County Clk., Montgomery. Noted Oct. 5.

Bridges (Continued)

Ala., Seale—Russell County receiving bids Nov. 15 for rein.-con.bridge over Brush Creek on Tuskegee and Columbus Rd. W. S. Keller, Montgomery, State Highway Engr.

Tenn., Knoxville—City receiving bids Dec. 1 for concrete viaduct on Gay St., about 900-ft. long and 60 ft. wide. J. B. McCalla, City Engr. Noted Oct. 19.

Ohio, Akron—Summit County plans election to vote on $1,000,000 bonds for North Hill Viaduct. Former election declared illegal. E. W. Paul, Court House, Akron, County Engr. W. Watson, Leader-News Bldg., Cleveland. Consult. Engr. Noted Sept. 21.

Ohio, Lima—City plans viaduct at Metcalf St. About $85,000. J. J. Heffner, City Engr.

Ind., Montgomery—City Comn. and Louisville & Nashville R.R. plan concrete bridge at Bell St. About $16,000. W. H. Courteney, Louisville, Ch. Engr.

Wis., Potter—County receives bids about Jan. 1 for rein.-con. bridge including seven 40-ft. spans. W M. Conway, Green Bay, Engr.

Minn., Aitken—Aitken County Comrs. plans 7 bridges. C. E. Nagel, St. Paul, State Highway Engr.

Minn., New Ulm—Brown County receiving bids Nov. 6 for State Bridge No. 2370. L. G. Vogel, New Ulm, Audr.

Kan., Anthony—Harper County votes Nov. 7 on $123,000 bonds for concrete bridges and culverts.

Kan., Ellsworth—Ellsworth County election Nov. 7 to vote on proposition for bridge over Smoky Hill River. Address County Clk., Ellsworth. Noted May 4.

Kan., Springhill—Johnson County receiving bids Nov. 11 for steel bridge. About $8,000. George Pike, Olathe, County Engr.

Neb., Lewellen—City soon to vote on bridge across North Platte River.

Mont., Great Falls—City made plans for steel and cement bridge over Missouri River at west end 1st Ave. About $200,000. R. C. Schuppert, City Engr.

Mo., Kansas City—(Official)—Bd. Park Comrs., 3rd floor, City Hall, receiving bids Nov. 22 for concrete bridge over Blue River on 71st St., Swope Park. T. C. Harrington, Secy. (See adv.)

Tex., Florence—Bd. Supervs. plans bridge across Gila River. About $65,000.

Tex., League City—Galveston County Comrs. soon lets contract for Clear Creek Bridge. R. M. Slas, Galveston, County Engr.

Okla., Tecumseh—Potawatomie County Comrs. receiving bids Nov. 9 for 2 concrete bridges and culvert. Address County Clk., Tecumseh.

Okla., Tulsa—(Official)—Tulsa County receiving bids Nov. 6 for approaches to Arkansas River Bridge No. 150. L. Cline, Tulsa, Clk. (See adv.)

Wash., Lawrence—City making plans for bridge over Kaw River to carry rails for transportation street, interurban and freight cars. About $211,000.

Wash., Montesano—See item under "Streets and Roads."

Wash., North Yakima—See item under "Streets and Roads."

Calif., Riverside—Bd. Supervs. Riverside County soon lets contract for Ordway steel girder and truss bridge at mouth of Live Oak Canyon. Address County Clk., Riverside.

Calif., San Jose—Santa Clara County receiving bids Nov. 6 for rein.-con. bridge on Mountain View and Alviso Rd. H. A. Pfister, San Jose, County Clk.

Ont., Preston—See item under "Miscellaneous."

Bids In and Contracts Awarded

Penn., Mauch Chunk—Carbon County let contract bridge over Big Creek to WHITAKER & DIEHL, Harrisburg, about $4,415.

Penn., Trucksville—Luzerne County Comrs. let contract concrete arch bridge over Big Creek to WHITTAKER & DICHE, Harrisburg. About $4,415.

Del., Milford—Sussex County rejected bids for bridge over Mispillion River. Address County Clk., Georgetown. Noted Sept. 28.

Va., Lynchburg—Norfolk & Western Ry. let contract viaduct over James River and railway track to M. M. ELKAN, Macon, Ga., about $350,000. Chesapeake & Ohio and Southern Rys., City of Lynchburg and Amherst County will contribute toward cost.

N. C., Shelby—County let contract 3 bridges over Broad River to AUSTIN BROS., Dallas, about $39,800.

Ga., Calhoun—Gordon County Comrs. let contract bridge over Cossawattee River near Reel's Ferry to AUSTIN BROS., Atlanta. About $6,240. Noted Oct. 5.

Ala., Little River—(Official)—Monroe County let contract 80-ft. rein.-con. bridge over Little River at Little River to VIRGINIA BRIDGE AND IRON CO., about $5,800. Noted Sept. 14.

Ohio, Cleveland—City Bd. of Control let contract West 3d St. Bridge to KING BRIDGE CO., East 69th St. and New York Central tracks. About $25,000. Noted Oct. 19.

Ohio, New Cumberland—Tuscarawas County let contract bridge over One Leg Creek to A. MacWARDELL. Noted Apr. 27.

Ind., Elwood—County let contract bridge over Duck Creek on North Anderson St. to ELKHART BRIDGE CO., Elkhart, $12,708; on Main and North C St. to I. E. SMITH, Richmond, about $13,900 and $5,000 respectively. Noted Aug. 17.

Ill., Broadwell—Township Comrs. let contract rein.-con. bridge over Salt Creek to DECATUR BRIDGE CO., Decatur. About $11,600.

Ill., Cairo—Alexander County let contract bridge over Taylor Ford to CANTON BRIDGE CO., Canton, about $7,713.

Ill., Kankakee—Kankakee and Will Counties let contract bridge over Kankakee River between 2 counties to M. & P. CONSTRUCTION CO., Rockport, Ind., about $43,213. Noted Sept. 21.

Ill., South Wilmington — (Official) — Grundy County let contract steel bridge in Greenfield Township to JOLIET BRIDGE AND IRON CO., Joliet. About $8,900. Noted Oct. 12.

Iowa, Clinton—Clinton County let contract 2 bridges in Spring Rock Township to J. R. KANE, Clinton. About $11,461. Noted Sept. 28.

Iowa, Eldorado—City let contract rein.-con. bridge to N. M. STARK & CO., Des Moines. About $7,377.

Iowa, Macedonia—Pottawattamie County Comrs. rejected bids for bridges over Nishnabotna River west of city. About $12,500. H. M. Howard, Engr. Noted May 4.

Minn., Princeton—City received no bids for truss bridge No. 353. Noted Sept. 28.

Ark., Corning—City let contract bridge over Black River to VINCENNES BRIDGE CO., Vincennes, Ind., about $19,000.

Okla., El Reno—Canadian County let contracts 13 bridges to S. J. WICK, EL. WICHER, E. E. BLAKE, G. M. STONE, El Reno, and OKLAHOMA BRIDGE CO., Oklahoma. About $14,136.

Ariz., Tucson—County let contract Oracle Bridge over Rillito River to EL PASO BRIDGE CO., El Paso, about $17,727. Noted Oct. 12.

Calif., Santa Barbara—Santa Barbara County rejected bids for bridges over Cat Canyon at Sisquoc and culvert bridge near Guadalupe. Noted Oct. 19.

WATER-WORKS

Proposed Work

Mass., Chicopee—City plans water mains. About $12,000. D. J. Coakley, Mayor.

N. J., Newark—Bd. Street and Water Comrs. receiving bids Nov. 2 for water pipes and special castings for high- and low-pressure systems. G. Sansenbacher, Supt. Noted Sept. 28.

N. J., Nutley—City soon lets contract for water main. Noted Sept. 21.

Penn., Pittsburgh—City voted $110,000 bonds for improving water system. Charles A. Finley, Supt.

Penn., Ringtown—City making plans for water-works. M. C. Krausse, Williamsport, Engr.

Penn., Steelton—City soon receives bids for 100,000,000-gal. reservoir. O. B. Baskins, Supt.

N. C., Durham—City receiving bids Oct. 31 for improving pumping station. B. S. Skinner, Mayor.

Fla., Brooksville—City soon receives bids for sale of $21,000 water bonds. Noted Sept. 28.

Miss., Sumrall—City voted $20,000 bonds for water system. Noted June 22.

Ohio, East Youngstown—City receiving bids Oct. 30 for 14-in. Venturi meter. Benjamin C. Miller, Supt.

Ohio, Lima—City soon lets contract for 800,000-gal. reservoir.

Ohio, Lima—Dir. of Pub. Ser. receiving bids Nov. 15 for improving water system. About $500,000.

Ohio, Ravenna—City plans 2,000,000-gal. filter plant. About $50,000.

Ohio, Winchester—Village receiving bids soon for concrete reservoir and pump house. G. M. Herbst, Village Clk.

Ohio, Zanesville—(Official)—City receiving bids Oct. 30 for water-works. W. W. Roach, Dir. Pub. Ser. Noted Oct. 12.

Mich., Mendon—City retained A. H. Smith Co., Consult. Engr., Toledo, Ohio, to make plans for water system.

Mich., Vasser—See item under "Light, Heat and Power."

Ill., Aurora—(Official)—City receiving bids Nov. 15 for rein.-con. covered reservoir with appurtenances. D. H. Maury, 1137 Monadnock Blk., Chicago, Consult. Engr. (See adv.)

Ill., Bloomington—City soon receives bids for water mains in Front St. Edward Jones, Mayor.

Wis., Chilton—City making plans for water system.

Wis., Madison—City soon receives bids for pumping station. About $35,000.

Wis., West Allis—Bd. Pub. Wks. receiving bids Nov. 11 for extending water mains in 50th, 68th and 77th Ave. E. G. Orbett, City Engr.

Iowa, Burlington—City plans water system. H. G. Vollmer, City Engr.

Iowa, Carroll—Plans being made for pumping station. G. C. Beiter, Supt.

Iowa, Lake Mills—City sold $20,000 water-works improvement bonds.

Iowa, Stuart—City receiving bids Oct. 60 for $25,000 water bonds.

Iowa, West Burlington—City making preliminary plans for water system. Stevens & Stiles, Commerce Bldg., Kansas City, Mo., Engr.

Minn., Cambridge—City defeated $15,000 water bonds. Noted Oct. 19.

Minn., Duluth—City plans to extend mains in Ramsey, 69th and 99th St. A. Ayers, City Engr.

Minn., Gaylord—Village sold $15,000 water bonds. Noted Sept. 28.

Kan., Altoona—City soon votes on $22,000 water-works and electric-light bonds. Riley & Hardman. Parsons, Engr.

Kan., Argonia—City soon lets contract for water system. About $20,000. W. B. Rollins & Co., 439 Railway Exchange Bldg., Kansas City, Mo., Engr. Noted Oct. 19.

Kan., La Crosse—City making plans for water system. W. B. Rollins, Railway Exchange Bldg., Kansas City, Mo., Engr. Noted Oct. 12.

Kan., Manchester—City election Nov. 3 to vote on $23,000 water-works bonds.

Kan., Plains—City plans election to vote on $6,000 bonds for extending water systems. S. D. Elliot, Mayor.

Kan., Tonganoxie—City voted $40,000 bonds for water system. Black & Veatch, Interstate Bldg., Kansas City, Mo., Engr. Noted Sept. 21.

Kan., Winfield—City soon receives bids for 1,700,000-gal. reservoir. W. J. Welfert, Supt.

S. D., Castlewood—City voted $20,000 bonds for water system. Bids soon to be received.

N. D., Churchs Ferry—City plans improving water system. About $25,000.

N. D., Grand Forks—City defeated $25,000 bonds for filter plant. J. J. Smith, Supt. Noted Sept. 21.

Mo., Carrollton—Water, Light and Transit Co. plans filter plant. H. W. Graham, Supt.

Mo., Sedalia—(Official)—City receiving bids Nov. 6 for water system and filter plant. About $50,000. Noted Sept. 28.

Tex., Higgins—(Official)—City to vote Nov. 17 on $20,000 water bonds. Noted Oct. 12.

Okla., Arnett—City voted $65,000 water-works bonds. Noted Oct. 12.

Okla., Marlow—City making plans for water and sewer systems. About $50,000. Benham Engineering Co., Concord Bldg., Oklahoma, Engr. Noted Oct. 19.

Okla., Talequah—City plans election to vote on water bonds. John R. Hicks, Supt.

Okla., Wilburton—City votes Nov. 3 on $55,000 water bonds. McIntosh-Walton Engineering Co., Engr. Noted Oct. 12.

Idaho, Twin Falls—City retained Louis C. Kelsey, Selling Bldg., Portland, Ore., to make plans for water system.

Wash., Puyallup—City soon lets contract for 3,000-ft. c.-i. water mains.

Wash., Seattle—Streets and Sewer Com. voted to install water mains in 10th Ave. About $45,000. L. B. Young, Supt. Water-Wks. Noted Sept. 28.

Wash., Seattle—City plans water mains and hydrants in Carleton Park; also addition to main on Magnolia Bluff. About $59,492.

Calif., Huntington Beach—City plans water system. About $150,000. H. L. Heffner, Mgr.

Calif., Santa Monica—City plans improving water system. About $100,000. W. S. Dole, Supt.

Que., Chambly Basin—City plans filter plant. About $30,000.

Que., Levis—City plans water system, filter plant and reservoir. About $50,000.

Ont., London—Hydroelectric Comn. of London plans improving water system. About $15,000. E. V. Buchanan, Gen. Mgr.

Ont., Richmond Hill—City making plans for water-works and mains. James, Loudon & Hertzberg, Ltd., Toronto, Consult. Engr.

Ont., York—City receiving bids Oct. 30 for pipe and special castings, etc.; also 12- and 24-in. mains and hydrants. Frank Barber, York, Engr.

Bids In and Contracts Awarded

Mass., Fall River—(Official)—Reservoir Comn. let contract to PHILIPSBURG CONSTRUCTION CO., Yonkers, N. Y., for wash drill borings per lin.ft. at $1.74, core borings per lin.ft. at $5. Noted Sept. 28.

Mass., South Braintree—City received low bid water system extension from H. C. Trojano, Brockton.

N. Y., Watervliet—Trustees of Fairview and St. Coleman's Home let contract water system to ABLETT & BOWES, Cohoes. About $18,840. Noted Aug. 10.

S. C., Bamberg—Comrs. Pub. Wks. let contract improving water system to BLANKENSHIP & McLELLAN, Charlotte. Noted June 29.

Fla., West Palm Beach—City let contract 24-in. water main from Lake Worth to Clear Lake to J. B. DAVIDSON CO., West Palm Beach, $8,265.

Mich., Grand Rapids—Bd. Pub. Wks. let contract water mains to VANDER WEELE BROS., 902 Benjamin St., Grand Rapids.

Water-Works (Continued)

Ill., Kewanee—City let contract reservoir to LEYDEN & ORTSEIFEN, 53 West Jackson Blvd., Chicago. Noted Sept. 21.

Wis., Monroe—Bd. Pub. Wks. let contract water-works extension to C. H. PHILLIPS, Waupaca, Wis.

Wis., Oshkosh—Bd. Pub. Wks. received low bids water tower from Larsen Construction Co., $14,530; C. R. Meyer & Sons Co., $14,847; Ganther & Kroyer, $15,025. Noted Oct. 5.

Wis., Sheboygan—City let contract 12-in. water main in North 18th St. to C. A. HONOLD CO., Sheboygan.

Iowa, Essex—City let contract water system to J. J. DUNNEGAN, Shenandoah. Noted Aug. 3.

Iowa, Kelley—(Official)—City let contract for water system to DES MOINES BRIDGE AND IRON CO., Des Moines. About $7,360. Noted Aug. 10.

Mo., Webster Groves—(Official)—City let contracts water system as follows: UNITED STATES CAST IRON PIPE AND FOUNDRY CO., pipe and fittings, about $9,229; WESTERN VALVE CO., hydrants, valves and boxes, about $1,978. Noted Apr. 6.

Calif., San Francisco—San Francisco County received low bid for high-pressure mains from E. M. Whitlock.

Ont., Weston—Town Council let contract for water mains to JOHNSTONE BROS., Weston.

SEWERS

Proposed Work

Mass., Boston—Bd. Pub. Wks. plans sewers in Holmes Ave., Dorchester; Jeffries St., East Boston; Walbridge St., Brighton; and Worley St., West Roxbury. About $9,085.

Mass., Leominster—City plans sewage disposal plant. J. J. Van Valkenburg, Framingham, Engr.

Conn., Hartford—(Official)—Bd. Contract and Supply receiving bids Oct. 31 for 1,995 ft. 66-in. and 73½-in. sewer in Olds Pl. and South St., 1,100 ft. of which will be in tunnel. Roscoe N. Clark, City Engr.

Conn., Stamford—City plans sanitary sewers. Paul Nash, City Engr.

Conn., Waterbury—Bd. Pub. Wks. receiving bids Oct. 31 for sewers in portions Meriden and Plank Rd., Eastwood and Highland Ave.

N. Y., Rome—Bd. Pub. Wks. rejected bids for sewers in Expense and West Court St. New bids. J. P. Plunkett, City Engr. Noted Oct. 5.

Penn., Carbondale—(Official)—City retained Clyde Potts, 30 Church St., New York, to make plans for sewers and sewage-disposal plant. J. A. Saxe, City Engr.

Penn., Clifton Heights—Borough plans sewers and disposal plant, about $70,000. J. F. Connor, 1345 Arch St., Philadelphia, Borough Pres. A. F. Damon, Jr., Post Office Bldg., Darby, Engr.

Fla., Fellsmere—See item under "Streets and Roads."

Ky., Louisville—Bd. Pub. Wks. making plans for sewer in portion Preston St., about $30,000. Roy Burks, City Engr.

Ohio, Alliance—City voted $50,000 bonds for improving sewage plant. Charles O. Silver, City Clk.

Ohio, Bellefontaine—City receiving bids Nov. 15 for sewers. About $65,000.

Ohio, Cincinnati—City soon lets contract for sewer in portion Baymiller St. About $13,890. Frank S. Krug, City Engr. Noted Oct. 19.

Ohio, Hamilton—City plans $100,000 bond issue for storm and sanitary sewers. F. E. Weaver, City Engr.

Ohio, Lorain—City receiving bids about Dec. 1 for sewer in several streets. C. M. Osborne, City Engr. Noted Oct. 19.

Ohio, Piqua—City passed resolutions for sewers in several streets. Albert Schroeder, City Engr.

Ohio, Sidney—City making plans for sewer. About $19,700. T. Blake, City Engr. Noted Aug. 3.

Ohio, Springfield—Council passed ordinance for storm sewer in portion Franklin St. About $4,708. M. J. Bahin, City Engr.

Ohio, Toledo—(Official)—City receiving bids Oct. 31 for 24,000 ft. 8- to 15-in. pipe sewer and 150 manholes. About $45,000. H. C. McClure, Comr. Engr. and Constr. Dept. Pub. Ser.

Ind., Goshen—City soon receives bids for sewer in South 8th St. J. W. Haverley, City Engr.

Ind., Michigan City—City making plans for sewer in Vlaire St. E. G. Dunn, Jr., Engr.

Mich., Buchanan—City plans sewer system.

Mich., Cadillac—City plans to build trunk sewer by day labor. About $18,000. T. V. Stephens, Engr. Noted Apr. 27.

Mich., Dearborn—City making preliminary plans for sanitary sewers and disposal plant. About $70,000. C. W. Hubbell, 2338 Penobscot Bldg., Detroit, Engr.

Mich., Grand Rapids—City to let contract about Feb. 1 for sanitary sewers. About $100,000. W. S. Moore, City Engr.

Mich., Kalamazoo—City election Nov. 7 to vote on $225,000 bonds for storm sewers. A. Lenderink. City Engr.

Ill., Waukegan—City passed ordinance for sewers in Clayton and Hickory St., Mill Court and Glen Flora Ave., also water main in Mill Court. E. M Douthitt, City Engr.

Wis., La Crosse—Finance and Sewer Com. of Common Council adopted resolution for 11-mi. sewer in east end sewer system. About $90,000. George Bradish, City Engr.

Wis., West Allis—Bd. Pub. Wks. receiving bids Nov. 11 for sewers in 50th and 77th Ave.

Wis., West Bend—City receiving bids Nov. 2 for storm sewer, catch basins, etc. Charles P. Heipp, City Clk.

Iowa, Carroll—City making plans for sewer system and pumping station, about 15,000 ft. of 12 in. sewer. J. C. Beiter, City Engr.

Iowa, Davenport—City retained John W. Alvord, 8 South Dearborn St., Chicago, Ill., to make plans for extending Marquette and Warren St. sewers About $60,000. J. W. Crowley, Comr. Pub. Wks. Noted Sept. 28.

Minn., Brainerd—City receiving bids Nov. 6 for lateral sewers in Dists. Nos. 1, 4, 5 and 8. Louis Knudson, City Engr.

Minn., Gaylord—City receiving bids Nov. 6 (extension of date) for water and sewer extensions. About $40,000. J. F. Druar, St. Paul, Consult. Engr. Noted Oct. 19.

Minn., Windom—City defeated $15,000 sewer bonds. Noted Sept. 14.

Kan., Hutchinson—City made plans for storm sewer. Bids soon. About $100,000. G. L. McLane, City Engr.

Kan., Salina—City plans sewers in North Side. About $40,000. P. G. Wakeenhut, City Engr.

Kan., Sylvan Grove—City making preliminary plans for sewer system. About $20,000. W. B. Rollins & Co., 439 Railway Exchange Bldg., Kansas City, Mo., Engr.

Kan., Wichita—City plans sanitary sewer No. 20. About $200,000. Bert C. Wells, City Engr.

Mont., Stevensville—City plans sewer system. A. Walbridge, City Engr.

Mo., Joplin—City plans storm sewer. About $40,000. J. J. McAfee, City Engr.

Mo., Sedalia—(Official)—City receiving bids Nov. 6 for sewage plant and improving sewers. F. T. Leaming, City Engr. Noted Sept. 21.

Mo., St. Louis—Bd. Pub. Wks. receiving bids Oct. 31 for sewers in South Mill Creek Dist. No. 49. E. R. Kinsey, Pres. Bd.

Mo., St. Louis—Bd. Pub. Wks. receiving bids Oct. 31 for sewers in Glaise Creek Sewer Dists. Nos. 12 and 16. E. R. Kinsey, Pres. Bd.

Tex., Cisco—City making plans for sewer system. Noted Oct. 12.

Tex., Frost—City making plans for sewer system. About $10,000. Noted Aug. 3.

Tex., Lockhart—(Official)—Citizens voted $35,000 sewer bonds. H. E. Elrod, Southwestern Life Bldg., Dallas, Engr. Noted Sept. 28.

Tex., Waxhachie—City voted $20,000 bonds for sewage plant. Noted Sept. 7.

Okla., Wetumka—City making plans for sewer system. Mackintosh-Walton Engineering Co., 1023 State National Bank Bldg., Oklahoma, Engr.

Colo., Boulder—City plans sewers in Arapahoe Ave. and Lincoln Pl. G. R. Joslyn, City Engr.

Idaho, Moscow—City plans extension of sewer system. About $32,000.

Wash., Tacoma—City plans sewers. About $35,000. W. C. Raleigh, City Engr.

Ore., Portland—City voted sewers in East 50th and East 16th St. Philip H. Dater, City Engr.

Calif., San Diego—City soon to let contract for sewer in University Heights. About $60,000. George Cromwell, City Engr.

B. C., Victoria—City plans improving sewer in Cook St. About $10,000.

Bids In and Contracts Awarded

Mass., Arlington—Bd. Pub. Wks. let contract Sec. 14 of sewer system to W. B. BYRNE, 61 Sharon St., West Medford.

Mass., Peabody—City let contract intercepting sewer to M. E. KELLEY, 30 Becket St.

Conn., New Haven—City let contract storm sewer in Forest St., Westville Dist., to MAHER-SPRAGUE, INC., New Haven. About $14,396.

N. Y., North Tonawanda—City let contract sewer in Oliver St. to P. NICKLAS.

N. J., East Orange—City let contract stormwater sewer in Halsted Valley, 3rd ward, to J. L. SEGRETTA & CO., 1455 Woodhaven Ave., New York. Noted Sept. 28.

N. J., New Brunswick—City let contract trunk sewer to UTILITY CONSTRUCTION CO., New Brunswick. About $10,593.

Penn., Gallitzin—City let contract sewers to L. R. CAMPBELL, Gallitzin.

Penn., Nanticoke—City let contract sewers in Locust and Arch St. to CARADOE REES, 317 East Noble St.

Penn., New Castle—City let contract East Side sewer to J. E. WELLAND CO., Pittsburgh, $19,026. Noted Aug. 31.

N. C., High Point—City let contract sewage-disposal plant to A. D. O'BRIEN, Wilmington, N. C., $14,164. Noted Feb. 24.

N. C., Tarboro—(Official)—City let contract 1/5 mi. 8- to 12-in. sewers to J. W. PIERCE, Durham, $10,511. Noted Oct. 5.

Ind., Anderson—Bd. Pub. Wks. let contract sewer in West 3rd St. to LEE BURKE. About $4,772.

Ill., Waukegan—City let contract sewers in Mott and Lenox Ave. to J. M. DONAHUE, Waukegan, $4,158. Noted Sept. 28.

Wis., Neenah—City received bids Oct. 12 for sewers from F. Eiel, Menosha, $7,735; Miner Co., Richland Center, $7,997; Kisput & Hendricks, Kaukauna, $9,966. Noted Sept. 28.

Wis., Wauwatosa—City let contract sewers to HERMAN HOHENSEE, 965 27th St., Milwaukee, $18,114.

Iowa, Panora—(Official)—City let contract improving sewer system to P. E. WYLIE, about $24,000. Noted June 22.

Neb., Ogallala—City let contract 12,000-ft. sewer to C. J. BURKE & SON, Kearney. About $5,000.

N. D., Enderlin—City let contract sewer system to V. H. AIKEN, Fargo.

GARBAGE

Proposed Work

N. J., Summit—City plans incinerator plant, about $25,000. R. C. Wheeler, City Engr.

N. J., Trenton—City making plans for 4 furnace addition to garbage disposal plant. J. R. Fell, Jr., Dir. Sts. and Pub. Impvt.

Penn., Wilkes-Barre—(Official)—City receiving bids Dec. 1 for collection and disposal of garbage and dead animals for and during a period of 5, 7 or 10 years. F. H. Gates, City Clk. (See adv.)

Ohio, Cincinnati—Creation of Waste Comn. to investigate problem of providing improved system of disposal of rubbish and garbage has been urged upon Council Com. on Health. A. Landis, Health Comr., pronounced present method as antiquated and deficient.

Ohio, Westerville—Jennings, Lawrence & Lindsay, Engr., Columbus, will submit report to Village Council recommending plan for disposal of garbage.

Ill., Chicago—City election Nov. 7 to vote on $2,000,000 bonds for disposal of garbage and ashes and plants. J. Ericson, City Engr.

Tex., Crockett—City plans garbage incinerator.

Bids In and Contracts Awarded

Ill., Highland Park—(Official)—City let contract garbage incinerator to O. A. ELLIOTT & CO., Springfield, about $6,000. Noted Oct. 12.

STREETS AND ROADS

Proposed Work

N. Y., Albany—Common Council plans paving Bradford, Rawson, Kehoe and Benjamin St. F. R. Lanagan, City Engr.

N. Y., Albany—(Official)—State Highway Comn., 55 Lancaster St., receiving bids Nov. 21 for highways in various counties. E. Duffey, Comr. (See adv.)

N. Y., Norwich—Chenango County Bd. Supvr. plans 5¼-mi. road from Cherry Valley Junction to Cobleskill and Seward; also road from Slaonsville to Montgomery County line. Address County Clk., Norwich.

N. J., Annandale—Bd. Freeholders, Hunterdon County, plans improving 2-mi. Annandale-Allerton Rd. Address County Clk., Flemington.

N. J., Cape May, C. H.—Bd. Freeholders, Cape May County, sold $17,000 bridge and $92,000 road bonds. Address County Clk., Cape May, C. H.

N. J., Newton—Bd. Freeholders, Sussex County, plans macadamizing Newton-Sparta Rd., about $25,000, and improving 1¼ mi. on Newton-Stanhope Rd. Address County Clk., Newton.

N. J., Summit—(Official)—Council will not improve Summit Ave. until next season. R. C. Wheeler, City Engr. Noted Sept. 14.

N. J., Trenton—State election in November to vote on $7,000,000 highway bonds. Noted Mar. 30.

N. J., Woodbridge—Bd. Freeholders, Middlesex County, plans improving portion Colonia Ave. Rd. Address County Clk., New Brunswick.

Penn., Apollo—Council passed ordinance to pave portion Grove St. J. M. Hankey, Pres.

Penn., Erie—(Official)—City receiving bids Nov. 3 for grading Parade St. under tracks of New York Central and Pennsylvania R.R., about 16,800 cu.yd. earth excavation and 3,000 cu.yd. rock excavation. F. G. Lynch, City Engr.

Penn., Mt. Penn—(Official)—Borough election Nov. 7 to vote on $15,000 street-improvement bonds. G. C. Hartline, Secy. Noted Oct. 12.

Penn., Pittsburgh—City plans improving various streets, about $120,000, including Spencer, about $65,000, and Estella Ave., about $25,000. E. J. Martin, City Clk.

Penn., Susquesne—Borough Council receiving bids Nov. 6 for grading, curbing and paving Sherman Ave. and Poplar Alley. W. E. Steffy, Chn.

Streets and Roads (Continued)

Penn., West Chester—Chester County plans road in New Garden Township from Toughkenmon to Delaware. Address County Clk., West Chester.

Md., Baltimore—(Official)—State Rds. Comn., 601 Garrett Bldg., receiving bids Nov. 4 for paving 1 section Pennsylvania Ave., 0.29 mi. asphalt, Contract No. BC-26; 1 section Hilton St., 0.66 mi., asphalt, Contract No. BC-27; 1 section Bayard St., 0.95 mi., asphalt, Contract No. BC-28; 1 rein.-con. bridge over Little Elk River along State Rd. at Western town limits of Elkton, one 80-ft. and two 60-ft. arches, Cecil County, Contract No. CE-23; 1 rein.-con. bridge over Zekiah Swamp along State Rd. between Waldorf and Bryantown, two 32-ft. spans of girder type, Charles County, Contract No. 0153-Br.; repairing bridge over Conocheague along State Rd., Washington County, Contract No. 0215-Br. F. H. Zouck, Chn. (See adv.)

W. Va., Grafton—Taylor County election Nov. 7 to vote on $100,000 bonds for roads from Grafton to Knottsville and Fetterman Dist., about 19 mi. Address County Clk., Grafton.

W. Va., Lewisburg—Greenbrier County, Ft. Springs Dist., voted $103,000 road bonds. J. S. Crawford, Lewisburg, Clk. Noted Sept. 21.

W. Va., Lewisburg—Greenbrier County election Nov. 7 to vote on $121,000 bonds for improving 12 mi. James River and Kanawha Pike, Meadow Bluff Township. Address Clk., Lewisburg.

N. C., Morganton—Bruce County voted $20,000 bonds for roads in Quaker Meadow Township. Address County Clk., Morganton. Noted Sept. 21.

N. C., Oxford—City voted $180,000 street-improvement bonds.

N. C., Rockingham—Richmond County to sell $50,000 road bonds. Address County Clk., Rockingham.

N. C., Trenton—(Official)—Jones County receiving bids Nov. 6 for purchase of $25,000 road bonds. Address County Clk., Trenton. Noted Sept. 28.

Ga., Atlanta—Fulton County Comrs. plan paving portion Peachtree Ave. About $31,000. Address County Clk., Atlanta.

Fla., Bradentown—Manatee County Comrs. soon to let contract for road work in Englewood Special Rd. and Bridge Dist. Address County Clk., Bradentown. Noted Sept. 28.

Fla., Bushnell—Sumter County retained W. M. Francisco, Zephyrhills, to make preliminary survey for 115 mi. road in Comrs.'s Dists. Nos. 3, 4 and 5. Address County Clk., Sumterville.

Fla., DeLand—Volusia County soon receives bids for 7 mi. asphalt paving DeLand-Daytona Rd. Address County Clk., DeLand.

Fla., Fellsmere—City plans 6 mi. paving, including sewers and storm drainage system. About $10,000. Isham Randolph & Co., 208 South La Salle St., Chicago, Engr.

Ala., Centerville—Bibb County receiving bids Nov. 18 for improving portion Centerville and Randolph Rd., gravel. About $9,500. Address County Clk., Centerville.

Ala., Talladega—Talladega County election Nov. 20 to vote on $300,000 road bonds. Address County Clk., Talladega.

Miss., Charleston—Tallahatchie County election Nov. 6 to vote on $25,000 road bonds, Rd. Dist. No. 2. D. S. Henderson, Charleston, Clk. Superv.

Miss., Ellisville—Jones County election Nov. 3 to vote on $200,000 road bonds. Address County Clk., Ellinsville. Noted Sept. 28.

Miss., Grenada—Grenada County receiving bids Nov. 6 for about 85 mi. sand-clay roads. Address County Clk., Grenada.

Miss., Iuka—Tishomingo County receiving bids Nov. 4 for about 6 mi. gravel roads. E. F. Parnell, Iuka, Secy.

Miss., Liberty—Supervs. Amite County plan $20,000 road bonds Dist. No. 1, $10,000 Dist. No. 2, $20,000 Dist. No. 3, and $50,000 Dist. No. 4. Address County Clk., Liberty.

Miss., Monticello—Lawrence County plans bond issue for road work in Dist. No. 1. Address County Clk., Monticello.

Miss., Oxford—Lafayette County voted bonds for road work in Taylor Dist.

La., Lake Charles—(Official)—City receiving bids Nov. 9 for about 14,000 sq.yd. gravel paving and 6,200 lin.ft. concrete curb and gutter on Boulevard St. E. L. Gorham, City Engr. Noted Oct. 12.

Tenn., Chattanooga—Hamilton County voted $50,000 bonds for 5-mi road in Suck Creek Sect. of Dixie Highway. Address County Clk., Chattanooga.

Tenn., Clarksville—Montgomery County voted $50,000 road bonds. Address County Clk., Clarksville.

Tenn., Hohenwald—Lewis County election Dec. 2 to vote on $100,000 road bonds. Address County Clk., Hohenwald.

Tenn., Huntingdon—Carroll County election Dec. 12 to vote on $200,000 road bonds. Address County Clk., Huntingdon.

Tenn., Memphis—City Comrs. plans paving 8,000 sq.yd. granite block on Calhoun Ave. About $9,271.

Ky., Whiteburg—City lets contract paving about Nov. 11.

Ohio, Bradford—Village receiving bids Nov. 10 for purchase of $600,000 bonds for improving School St.

Ohio, Canton—(Official)—City election in November to vote on $82,900 street improvement bonds. W. E. Sarver, City Engr. Noted Oct. 12.

Ohio, Cleveland—Cuyahoga County Comrs. receiving bids Nov. 1 for $45,018 bonds for improving West Lake Rd. W. A. Stinchcomb, County Surv. Noted July 20.

Ohio, Columbus—State Highway Comn. receiving bids Nov. 2 for 21 mi. highway in Clinton, Fairfield, Franklin, Guernsey, Harrison, Putnam and Seneca Counties. About $212,547. C. Cowen, State Highway Comr.

Ohio, Hamilton—Butler County Comrs. plan improving 15-mi. road in 1917. Fred M. Hammerle, Hamilton, County Engr.

Ohio, Jefferson—Council passed ordinance to improve portion Dorset Rd., brick.

Ohio, Kent—City plans to pave Lake St.

Ohio, Niles—City receiving bids Oct. 30 for sale of $18,000 street-improvement bonds. Homer Thomas, City Audr.

Ohio, North Lewisburg—Village Council plans improving various streets. About $10,000.

Ohio, Piqua—Council passed resolution to improve 1st St. A. Schroeder, City Engr.

Ohio, Westerville—(Official)—R. S. Blinn, City Mgr., 7½ North State St., receiving bids Nov. 4 for improving portion West Broadway and Knox St.

Ohio, Woodsfield—(Official)—Village received no bids for curbing, paving and sewering Home Ave. New bids. G. P. Dorr, Woodsfield, Clk. Noted Sept. 28.

Ind., Ft. Wayne—Allen County receiving bids Nov. 21 for concrete road Adams Township. W. Johnson, Ft. Wayne, Audr.

Ind., South Bend—City receiving bids Oct. 31 for resurfacing Laporte Ave., about $6,100. F. J. Anderson, City Engr. Noted Oct. 19.

Mich., Grand Rapids—City plans to improve Curtis St. W. S. Moore, City Engr.

Ill., Canton—Lewiston County receives bids about January for 1 mi. concrete and 2 mi. brick road. About $35,000. E. F. Motsinger, Canton, County Supt. Highways.

Ill., Chicago—South Park Comrs. plan improving South Shore Blvd.

Ill., Mt. Carroll—City Council plans improving portions of Clay, Market and Rapp St. Charles S. Hepner, Freeport, Engr.

Ill., Princeton—Bd. Supervs. plans improving roads in Greenville, Neponset, Hall, Princeton and Ohio Townships. About $80,000.

Ill., Woodstock—City plans to pave Madison, Jefferson, West Jackson and Lincoln Ave. and Judd St.

Wis., Milwaukee—Milwaukee County Comrs. plan improving portion Beloit Rd. Address County Clk., Milwaukee.

Wis., West Allis—City Council plans paving 68th Ave. E. G. Orbert, City Engr.

Iowa, Algona—City plans to improve about 35 streets and alleys, including grading, curbing and guttering. T. S. DeLay, Creston, Consult. Engr.

Iowa, Shenandoah—City plans to pave number streets.

Minn., Benson—Swift County plans to spend about $30,000 for road work in 1917. D. P. Carney, Benson, Audr.

Minn., Morris—Stevens County plans to spend about $20,000 for road work in 1917. C. R. Wolthan, Morris, Audr.

Minn., Pine City—Pine County to spend about $160,000 to improve St. Paul-Duluth Rd. Address County Clk., Pine City.

Minn., Rochester—City plans paving 2-mi. Central St., creosote blocks. J. C. Utton, City Engr.

Kan., Augusta—(Official)—City receiving bids Nov. 6 for paving State St. and 5th Ave., about 25,000 yd. brick paving including curbing and guttering. P. Wiley, City Clk. Black & Veatch, Interstate Bldg., Kansas City, Mo., Engr. Noted Oct. 12.

Neb., Fairbury—City voted $50,000 paving bonds. E. A. Wunder, City Clk. Noted Sept. 28.

Neb., Falls City—City plans to pave portion Stone St., Paving Dist. No. 17. F. Smith, City Clk.

Neb., Hastings—City soon lets contracts for 3 to 4 mi. asphalt paving. W. H. Fuller, City Engr.

Neb., Kearney—Council plans to pave portion Ave. A.

Mont., Great Falls—Bd. Comrs. Cascade County plan 10 mi. highway between Monarch and north end joint county government park-to-park road above Neihart. About $80,000. Address County Clk., Great Falls.

Mo., Fayette—Council receives bids in January for paving portion Cupples Ave. A. Kirby, City Engr.

Mo., Hollister—Hollister-Ridgedale Special Rd. Dist. soon receives bids for about 10 mi. road work. W. H. Johnson, Hollister, Secy.

Mo., Independence—City plans improving 4 mi. streets. H. H. Pendleton, City Engr.

Mo., Stanberry—City lets contract for brick paving in January. Black & Veatch, Kansas City, Consult. Engr.

Ark., Camden—Ouachita County plans sand and clay road from Camden to Nevada County line, about $25,000. Address County Clk., Camden.

Ark., Jonesboro—Craighead County plans 11 mi. road from Jonesboro to Otwell, 12 mi. gravel and remainder asphalt macadam. About $60,000 Address County Clk., Jonesboro. Noted Apr. 20.

Ark., Walnut Ridge—Lawrence County plans 5½ mi. macadam road north from Walnut Ridge. About $25,000. Address County Clk., Walnut Ridge.

Tex., Angleton—Brazoria County voted $150,000 road bonds for Dist. No. 3. Address County Clk., Angleton. Noted Aug. 31.

Tex., Austin—City plans $64,000 bond issue for paving. M. C. Welborn, City Engr.

Tex., Cleburne—City plans to grade and pave various streets.

Tex., Dallas—City Council plans paving portions Word and McCoy St., bitulithic and vibrolithic.

Tex., Dodd City—Citizens defeated $45,000 road bonds.

Tex., Fairfield—Freestone County voted $20,000 road bonds for Dist. No. 4. G. W. Tryer, Fairfield, County Judge.

Tex., Houston—Harris County receiving bids Oct. 30 for repaving Katy and Washington Rd. H. L. Washburn, Houston, Audr.

Tex., Rusk—(Official)—Cherokee County defeated $300,000 road bonds. E. D. Spink, Rusk, County Clk. Noted Oct. 12.

Okla., Depew—Depew Township plans expenditure of $16,000 for road improvements.

Tex., Savoy—Citizens voted $40,000 road bonds.

Okla., Miami—Peoria Township, Ottawa County, voted $19,000 road bonds. Address County Clk., Miami.

Okla., Pawnee—Pawnee County receiving bids Nov. 6 for rock road around Twin Hills. A. Daniels, Pawnee, County Clk.

Okla., Sapulpa—City receiving bids Nov. 1 for paving portions Lincoln and Mission St., asphalt.

Okla., Tahlequah—(Official)—Cherokee County election Nov. 7 to vote on $100,000 road bonds. J. R. Miller, Talequah, Clk. Noted Oct. 12.

Okla., Wilburton—Latimer County voted $35,000 road bonds, Red Oak Township. Address County Clk., Wilburton. Noted Oct. 5.

Wash., Everett—Council passed ordinance to pave Wall, Nassau and 25th St. Hans Mun, Jr. City Engr.

Wash., Montesano—Grays Harbor County Comrs. plan expenditure of $262,755 for road and bridge improvements. George D. Robertson, Montesano, County Engr.

Wash., Mt. Vernon—City plans paving portion 4th Ave. About $11,000.

Wash., North Yakima—Yakima County plans road and bridge work. About $177,250. O. E. Brashears, Yakima, County Engr.

Wash., Vancouver—Clarke County Comrs. plan expenditure of $150,000 for road and bridge work. W. A. Schwarz, Vancouver, County Engr.

Ore., Astoria—Clatsop County Comrs. plan improving 60-mi. road. About $700,000. G. F. Parker, Astoria, County Engr.

Ore., Coquille—Coos County soon lets contract for road work. About $602,000. C. S. McCulloch, Coquille, County Engr.

Ore., Cornelius—City plans improving Pine and 4th St. George A. Wilcox, City Recdr.

Calif., Bakersfield—Kern County receiving bids Nov. 9 for 12.3 mi. paving on Bakersfield-Mojave Highway. F. E. Smith, Bakersfield, Clk.

Calif., Berkeley—City rejected only bid for paving, curbing and sewering Euclid Ave. New bids. J. J. Jessup, City Engr. Noted Sept. 7.

Calif., Eureka—Surveys made for about 16 mi. paved boulevard from Fernbridge to Ferndale and from Grizzly Bluff to Centerville. About $180,000. J. A. Shaw, Engr.

Calif., Los Angeles—(Official)—City receives bids about Nov. 10 for paving portion Lincoln Ave. About $5,700. H. Hamlin, City Engr. Noted Nov. 5.

Calif., Sacramento—Sacramento County voted $1,750,000 road bonds. Address County Clk., Sacramento. Noted Sept. 21.

Calif., Sacramento—City Comrs. plan to pave McIntyre Ave. F. C. Miller, City Engr.

Calif., San Rafael—Bd. Supervs. Marin County plan to improve Bolinas-San Rafael Highway. About $10,000.

Ont., Windsor—City plans to pave Howard Ave., concrete, about $20,000.

Bids In and Contracts Awarded

Maine, Bangor—State Highway Comn., Augusta, let contract highway Hammond St. to SMALL & INGALLS, and MURTAGH HUGHES, about $9,498.

Mass., Ayer—(Official)—Massachusetts Highway Comn. let contract section highway in Ayer to R. F. HUDSON, Melrose, about $27,103.

Mass., Boston—City let contract paving portion Commonwealth Ave. to WARREN BROS. CO., 142 Berkeley St., about $16,985.

Streets and Roads (Continued)

N. Y., New York—(Manhattan)—(Official)—Low bidder paving portions Seaman Ave. and 218th St. was UVALDE ASPHALT PAVING CO., 1 Broadway, about $9,219 and $4,677 respectively. Noted Oct. 12.

Mass., Cambridge—(Official)—City, to pave Cambridge St. by day labor. About $63,000. L. M. Hastings, City Engr. Noted Oct. 12.

N. Y., New York—(Manhattan)—(Official)—Borough rejected bids improving 3rd Ave. Noted Oct. 12.

N. Y., New York—(Manhattan)—(Official)—Borough rejected bids improving Central Park Transverse Rd. No. 2. Noted Oct. 5.

N. Y., New York—(Richmond)—(Official)—J. Johnsons' Sons, 455 Broadway, West New Brighton, at $7,234, low bidder improving portion Ridgewood Pl. Noted Oct. 12.

N. J., Hammonton—M. Staub, Mamaroneck, at $32,791, low bidder paving portion Bellevue Ave. Noted Oct. 5.

N. J., Montclair—(Official)—Essex County let contract improving portion Valley Rd. to STANDARD BITULITHIC CO., 31 Clinton St., Newark, about $19,000. Noted Oct. 12.

N. J., Newark—City let contracts paving to STANDARD BITULITHIC CO., Essex Bldg., Newark, Custer Ave., $8,110; Porter Pl., $4,345; Salem St., $6,473. Noted Oct. 5.

N. J., South Amboy—Bd. Freeholders, Middlesex County, New Brunswick, received bids for paving Washington Ave. and Main St., warrenite, from Liddle & Pfeiffer, 137 N. Bruns Ave., Perth Amboy, at $57,499; George Gundrum, 103 Henry St., South Amboy, at $57,567; T. H. Riddle, 102 Church St., New Brunswick, at $57,750. Noted Sept. 14.

N. J., West New York—(Official)—Town let contract improving portion 9th St. with "Hastings" asphalt blocks to. HASTINGS PAVEMENT CO., 25 Broad St., New York, about $66,204. Noted July 27.

Penn., Erie—Bd. Education let contract grading side of Academy High School to W. M. SUTHERLAND CO., 4th and Washington Ave., St. Louis, about $6,500.

Penn., Washington—Washington County let contract improving portion Ragersville and Sugarcreek Rd. to A. GARBER.

W. Va., Huntington—City let contract paving portion 28th St. to HARRISON & DEAN, $1.30 per sq.yd.

Ala., Gadsden—Etowah County Rd. Comn. let contract Colvin Gap Rd. across Colvin Mountain from Hokes Bluff to Calhoun County line to C. G. KERSHAW.

Miss., Houston—Chickasaw County let contract about 8 mi. gravel road to W. A. MOORE, Thorn, $41,000. Noted Sept. 28.

La., Alexandria—City let contract paving portions White St. and Park Ave. to C. E. RANSBOTTOM, $7,270 and $6,017, respectively; Monroe St., A. J. GAILEY, $6,287.

La., Amite—Tangipahoa Parish, 1st Ward, voted $100,000 road bonds. Address Police Jury, Amite.

Ky., Franklin—City let contract 35,000 sq.yd. resurfacing to R. PRICE, Auburn.

Ky., Henderson—Henderson County let contract rebuilding Morganfield-Smith Mills Rd. to E. MANION, Henderson, about $21,000.

Ky., Hopkinsville—City let contract macadam paving to MONTGOMERY, PERKINS & CO., about $28,339.

Ohio, Akron—(Official)—Summit County let contract paving Manchester Rd. to J. M. DAVIDSON, 80 East Exchange St., about $7,762. Noted Oct. 5.

Ohio, Dayton—City let contracts paving to C. HOOLIHAN, Neal Ave., $5,731, Arbor Ave., $20,888, Florence Ave., $18,101, Old Orchard Ave., $4,050.

Ohio, Hamilton—(Official)—City let contract improving portion 9th St. to ANDREWS ASPHALT PAVING CO., Rentschler Bldg., about $15,360. Noted Oct. 5.

Ohio, Hamilton—(Official)—City let contracts paving to ANDREWS PAVING CO., Rentschler Bldg., Progress Ave., $4,625, Eaton Rd., $6,788; FEDERAL ASPHALT PAVING CO., Rentschler Bldg., Franklin St., $9,140, C St., $18,785; A. WIRTZ TRANSFER CO., Maple Ave., Park Ave., $7,465. Noted Oct. 5.

Ohio, Marion—(Official)—City let contract resurfacing Bellefontaine Ave. to H. P. STREICHER & CO., Toledo, $1.30 per sq.yd. Noted Oct. 12.

Ohio, Norwalk—County let contract paving Barberton-Greenwich Rd. to HILL & HILL, Elyria, about $12,822.

Ohio, Ottawa—(Official)—Putnam County rejected bids for improving Fred Louse Rd., Jennings Township, and J. A. Unverferth Rd., Union Township. J. E. Roose, Audr. Noted Oct. 12.

Ohio, Springfield—Bd. Local Impvts. let contract paving and curbing portion West Monroe St. and Lincoln Ave. to J. O. PATTERSON CO.

Ohio, West Park—(Official)—City let contract grading Settlement, Wiltshire and Belmont St. to N. HORTON, West Park; sidewalks to CLEVELAND STONE CO. and LANDRETH BROS. Noted Oct. 5.

Ind., Crown Point—County let contract gravel road St. John Township to A. L. COURTRIGHT, Crown Point, about $16,000.

Ind., Huntington—Huntington County let contract 2 roads Union Township to W. S. GORDAN & SON, Bluffton, about $20,388. Noted Sept. 28.

Ind., Liberty—(Official)—Union and Franklin Counties let contract county line road to T. J. CONNELL, Cambridge City, about $11,659. Noted Sept. 28.

Ind., Martinsville—Morgan County let contract gravel roads Monroe Township to C. H. MARLEY, Moorsville, about $4,576. Noted Sept. 28.

Ind., Rockville—City let contract paving south side Public Sq. to E. PATTON & SON, Veedersburg, about $7,793.

Ill., Roseville—Bd. Local Impvts. received only bid for paving Gilbert, Maple and Benton St. from F. B. Coughlin Co., Chicago. About $26,127.

Ill., Springfield—(Official)—State Highway Dept. let contract road improvements as follows: Cook County, Sect. "O," CHICAGO HEIGHTS COAL CO., Chicago, $29,637; Macoupin County, Sect. "F," VAN DUSEN & BAUMBERGER, Greenville, $14,742; Menard County Sect. "C," E. E. BRASS, Petersburg, $5,266; Fayette County, Sect. "B," STANLEY, DEES & CO., Oblong, $13,553; Stark County, Sects. "D" and "E," CAMERON, JOYCE & CO., Keokuk, Iowa, $18,014.

Kan., Kansas City—Bd. Pub. Wks. let contract paving portion Pacific St. to KRAMER CONSTRUCTION CO., $2.37 per yd.; Roswell Ave., D. M. BODDINGTON, $1.12 per yd.

Kan., Wichita—(Official)—City let contract asphalt paving to CLEVELAND-TRINIDAD PAVING CO., Kansas City, Mo., $1.76 per sq.yd. Noted Sept. 14.

Mont., Miles City—City Council let contract paving Main St. to HANLON & OAKES CO., Miles City. About $66,792. Noted Sept. 28.

Mo., Kansas City—City let contract paving portion 18th St. to A. JAICKS CO., 510 American Bank Bldg., $63,412. Noted Oct. 12.

Mo., Kansas City—Bd. Pub. Wks. let contracts improving various streets as follows: Indiana Ave., E. F. CLARKSON, 3931 St. John Ave., $5,870; Westwood Rd., E. D. TYNER CONSTRUCTION CO., 1201 Spruce St., $1.33 per yd.; 55th St., C. G. BROSNAHAN, 5122 Grand Ave., $6,680; Troost Ave., F. P. McCORMACK, 2309 Penn St., $11,757.

Mo., St. Louis—(Official)—City let contract improving portion Locust St. to TRINIDAD ASPHALT MANUFACTURING CO., $68,133. Noted Sept. 28.

Mo., Sikeston—(Official)—City let contract improving Stoddard St. to MURRAY & WILLIAMS, Sikeston, about $5,046.

Ark., Eldorado—City let contract paving 40 blocks in Impvt. Dist. No. 4 to McEACHIN CONSTRUCTION CO., McAlister.

Tex., Gilmer—Upshur County let contract 12 mi. road to O. C. McELREATH.

Okla., Tulsa—County let contract about 6 mi. paving on Tulsa-Sapulpa Highway to J. T. LANGTRY, about $6,933 per mi.

Idaho, Lewiston—City let contract improving streets in Dist. No. 13 to C. M. PAYNE, 724 East Mission St., Spokane.

Wash., Pomeroy—County rejected bids for Permanent Highway No. 3.

Wash., Seattle—King County Comrs. let contract Kirkland-Bothell Rd. to L. H. GOERIG, 3611 East Terrace St., about $8,750. Noted Sept. 7.

Calif., Chino—California-Arizona Construction Co., at $53,715, low bidder improving various streets. P. E. Kressly, City Clk. Noted Sept. 7.

Calif., Fowler—City let contract about 6,000 lin.ft. paving to CORNFIELD & DAVIS, Bakersfield, $7,750. Noted Oct. 5.

Calif., Los Angeles—(Official)—Ford & Stout, at $5,163, low bidder paving portion 18th St. Noted Oct. 5.

Calif., Los Angeles—(Official)—City let contract paving Boyle Ave. to LOS ANGELES PAVING CO., 2900 East Santa Fe Ave., about $29,438. Noted Oct. 19.

Calif., Oroville—Butte County let contract improving Oroville-Palermo Highway to HEWITT & FELCH, Palermo, $5,800.

Calif., Pasadena—City Comrs. received low bid for 115,000-sq.ft. macadam pavement on Glenarm St. from S-C Construction Co., 543 Title Insurance Bldg., Los Angeles. About $11,385.

Calif., Sacramento—(Official)—State Highway Comn., 595 Forum Bldg., let contract highway in Sonoma County, Div. 4, Route 1, Sect. C, to W. C. PRICE & CO., 209 Clay St., San Francisco, about $12,224. Noted Sept. 28.

Calif., San Bernardino—City let contract for improving B St. to HIGHWAY CONSTRUCTION CO., Redlands, about $26,455. Noted June 22.

Calif., San Leandro—Johnson-Shea Co., Central Bank Bldg., Oakland, at $26,326, low bidder paving East 14th St.

Calif., Santa Ana—County received low bid road work from BRASHEAR BURNS CO., Van Nuys Bldg., Los Angeles, about $16,728.

Calif., Santa Cruz—City let contract improving various streets to CITY STREET IMPROVEMENT CO., 166 Geary St., San Francisco, about $39,264.

Calif., Stockton—(Official)—San Joaquin County let contract improving Brookside Tract Highway to C. MORENIG, Commercial and Savings Bank Bldg., about $8,862. Noted Sept. 28.

Ont., Toronto—City let contract improving Moore Ave. to WARREN BITUMINOUS PAVING CO. OF ONTARIO, LTD., McKinnon Bldg., $19,728. Noted Oct. 12.

Ont., Toronto—City transferred contract for paving Spruce Hill Rd. from R. C. Harris, Wks. Comr., to ASPHALTIC CONCRETE CO., LTD., Excelsior Life Bldg., $7,231. Noted July 20.

INDUSTRIAL WORKS

Proposed Work

Maine, Bangor—C. S. Jones, 49 Pickering Sq., making plans for 2-story bakery. About $10,000. V. Hodgins, 39 Hammond St., Arch.

Mass., Cambridge—Davis Ice Cream Co., 155 Massachusetts Ave., making plans for 3-story manufacturing and store building. Prescott & Sidebottom, 12 Pearl St., Boston, Arch.

R. I., Providence—Grocers' Baking Co. making plans for 2-story bakery, about $40,000. C. D. Cooley Co., Century Bldg., Pittsburgh, Arch.

N. Y., Albany—A. L. De Baum, 41 Liberty St., New York, made plans 2-story, brick and rein.-con. public garage, Albany Ave. and Carroll St. About $20,000. Volckening & Holler, 82 Wall St., Arch.

N. Y., New York—(Brooklyn)—V. Baranto, 58 North 5th St., made plans, 2-story, 25x100-ft. storage building. About $50,000.

N. Y., New York—(Brooklyn)—Kingsboro Development Co., 215 Havemeyer St., made plans for 2-story, 180x2,220-ft. brick warehouse, south side Johnson Ave. About $40,000. Koch & Wagner, 26 Court St., Arch.

N. Y., New York—(Manhattan)—(Official)—S. J. Stammers, Arch., 320 5th Ave., receiving bids for 1-story, 76x152-ft. factory at 62nd St. and 1st Ave., for Beekman Estate, 7 East 42nd St. About $33,000.

N. Y., New York—(Manhattan)—Lehmaier Schwartz & Co., 207 East 22nd St., making plans 6-story brick and steel factory, north side East 22nd St. east 3rd Ave. About $60,000. W. Higginson, 13 Park Row, Arch.

N. Y., New York—(Manhattan)—Loft Candy Co., Broome and Center St., making plans for addition. Foster & Gage, 15 West 38th St., Arch.

N. Y., New York—(Manhattan)—Dept. Water Supply, Gas and Electricity, Municipal Bldg., making plans for 3-story, brick and concrete, repair shop, tool house and garage, 427 East 87th St. W. Williams, Municipal Bldg., Comr. Noted July 20.

N. Y., New York—(Manhattan)—(Official)—J. C. Ruhl, Arch., 3207 Hull Ave., Bronx, receiving bids for 6-story, 37.6x100.5-ft. brick garage for Walter Piano Co., 226 East 65th St. About $70,000.

N. Y., North Tonawanda—Herschell-Spillman Co. making plans for 4-story, 60x165-ft. factory. About $50,000. E. O. Spillman, 162 Sweeney St., Pres.

N. Y., Rochester—Rochester Tallow Co., c-o A. Shade, Rochester, making plans for addition to cooler building. About $15,000. G. Schwutz, 346 Ellicott Sq., Buffalo, Arch. and Engr.

N. J., Belleville—Kent Motor Corporation made plans for 1-story, 512x575-ft. plant. Marvin & Davis, 303 Fifth Ave., New York, Arch. About $1,000,000.

Penn., Beaver Falls—Beaver Refrigerator and Manufacturing Co., New Brighton, plans to rebuild plant at Beaver Falls destroyed by fire. About $75,000 or $150,000.

Penn., Erie—Palace Hardware Co., 913 State St., plans warehouse. About $60,000.

Penn., Millvale—Independent Brewing Co., of Pittsburgh, soon receives bids for addition to plant at Millvale. About $250,000. J. H. Friday, First National Bank Bldg., Pittsburgh, Gen. Mgr. Bollinger Bros., Fulton Bldg., Pittsburgh, Engr.

Penn., Norristown—Badenhauser Boiler Co., 1429 Chestnut St., plans 1½-story, 180x250-ft. factory.

Penn., Pittsburgh—Consolidated Ice Co. receives bids about Dec. 1 for addition to storage house, about $15,000. T. A. Dunn, 13th and Pike St., Gen. Mgr. E. H. Stotz, Monongahela Bank Bldg., Arch.

Penn., Pittsburgh—Kaufman Bros., 24 West Grant Ave., making plans 8- or 10-story warehouse. About $500,000. Hunting, Davis & Co., Century Bldg., Arch. Noted Sept. 28.

Md., Baltimore—Dixie Manufacturing Co., Russell and Stockholm St., plans 2-story addition, Russell and Ostend St.

Md., Baltimore—Jones & McComas Box Co. plans plant at 1816-24 Lancaster St. W. P. McComas, Secy.-Treas.

Md., Cumberland—Western Maryland Ry. plans to spend about $300,000 for shops and other improvements. H. R. Pratt, Baltimore, Ch. Engr.

Industrial Works (Continued)

Va., Pocahontas—Pocahontas Consolidated Collieries plans machine shop, about $20,000.

W. Va., Barboursville—Southern Powder Co. incorporated to build dynamite and powder factory, about $100,000.

N. C., Pomona—Southern Ry. plans roundhouse, about $200,000. B. Herman, 1300 Pennsylvania Ave., Washington, D. C., Ch. Engr. M. W. and Struct.

Ga., Rome—Southern Box Manufacturing Co. to rebuild factory destroyed by fire with $12,000 loss.

Ala., Fairfield—Barrett Co. plans to rebuild plant destroyed by fire with loss of $1,000,000.

Ohio, Bellaire—Kochfine Ice Co. plans to spend about $25,000 for improving and enlarging plant.

Ohio, Cincinnati—Cincinnati Grinder Co. plans 1-story factory. About $50,000. A. C. Hoefing, 1305 Bates Ave., Pres. and Treas.

Ohio, Cincinnati—Jones Heel Manufacturing Co. increased capital stock from $75,000 to $150,000 and plans new plant.

Ohio, Cleveland—Columbia Axle Co. made preliminary plans for 1- and 2-story, 300x500-ft. factory. About $250,000. W. S. Ferguson Co., 1900 Euclid Bldg., Arch. and Engr.

Ohio, Cleveland—Landemans & Hirschheimer plans 4- or 5-story factory, about $300,000. B. Lowenstein, 1327 West 9th St., Pres.

Ohio, Cleveland—Mechanics' Laundry Co. making plans for 2-story, 54x130-ft. factory. About $15,000. Richard & Yost, Rockefeller Bldg., Arch. and Engr.

Ohio, Cleveland—National Acme Manufacturing Co., 7500 Stanton Ave., making plans for factory. About $300,000. G. S. Rider, 512 Century Bldg., Arch. Noted Aug. 31.

Ohio, Cleveland—Raymond Realty Co., 318 Leader-News Bldg., plans factory, about $85,000 and second unit, about $70,000, along Belt Line R.R., near East 71st St.

Ohio, Cleveland—Schneider-Becker Dairy Co., 7100 Clarke Ave., making plans for 6-story dairy plant. About $200,000. W. D. McCormick, 9th floor, Century Bldg., Pittsburgh, Arch.

Ohio, Coshocton—Coshocton Glass Co. making plans for addition to plant. About $150,000. H. L. Dickson Co., Pittsburgh, Arch and Engr. Noted Sept. 28.

Ohio, Middletown—American Rolling Mills Co. plans 2-story factory and office building. About $125,000. Weber, Werner & Adkins, 1206 Mercantile Library Bldg., Cincinnati, Arch.

Ind., Gary—American Car and Foundry Co. plans plant north of Grand Calumet River.

Mich., Detroit—Fisher Body Co. plans 5-story, 160x266-ft. addition to factory. A. Mendelson, Paquette Ave. and St. Antpine St., Secy. L. Kamper, 703 Fine Arts Bldg., Arch.

Mich., Flint—Flint Spring Water Ice Co., 2025 South Saginaw St., made plans for 1-story ice plant. About $40,000. A. C. Bishop, Citizens Bldg., Cleveland, Arch. Noted Oct. 5.

Ill., Chicago—Englewood Cold Storage Co. made plans 8-story cold-storage warehouse, about $125,000. H. Friedl, 154 West Randolph St., Arch., receives bids about Nov. 5.

Ill., Chicago—Modern Laundry Co. making plans for 2-story laundry and power plant. Davidson & Weiss, Patterson and Davidson, 53 West Jackson Blvd., Engr.

Wis., Milwaukee—Milwaukee Chair Co., 3022 Center St., making plans for addition to factory. About $10,000. J. E. Dirk, 1064 24th St., Arch.

Wis., Milwaukee—Nunn & Bush Show Co., 1102 5th St., plans 4-story addition, about $40,000. H. J. Esser, 401 Camp Bldg., Arch.

Wis., Milwaukee—Phoenix Printing Co., 1616 Chicago St., making plans for 1-story building, about $15,000. Lennhouts & Guthrie, 424 Jefferson Bldg., Arch.

Wis., Sturgeon Bay—Coöperative Orchard Co. plans machine and blacksmith shop and 2-story, 40x120-ft. warehouse. J. Martin, Mgr.

Iowa, Blencoe—Farmers' Elevator Co. plans corn crib with dump and elevator. About $12,000.

Minn., Red Wing—Dixon Casket Co., Dixon, Ill., plans factory at Red Wing, about $30,000.

Mont., Great Falls—Chicago, Milwaukee & St. Paul Railway Co. plans 100x100-ft. brick warehouse, 203 2nd Ave., S. About $25,000. C. F. Loweth, Railway Exchange Bldg., Chicago, Ch. Engr.

Mont., Great Falls—Palace Meat Co. plans packing plant, about $20,000.

Mo., St. Louis—J. E. Nevin, St. Louis, plans to organize company with $100,000 capital, to build chemical plant.

Ark., Little Rock—Central Supply Co., 120 Scott St., made plans for 4-story warehouse. About $40,000. Mann & Stern, Little Rock, Arch. Noted Sept. 7.

Ark., Pine Bluff—St. Louis Southwestern Ry. plans 24-stall roundhouse at Pine Bluff. C. D. Purdon, Railway Exchange Bldg., St. Louis, Ch. Engr.

Tex., Beaumont—I. E. Scott, c/o Chamber of Commerce, plans to organize company with $100,000 capital stock to build shipbuilding plant.

Tex., Bryan—Bryan Ice Co. plans addition. About $25,000.

Tex., Houston—City making plans for warehouse. About $350,000. E. E. Sands, City Engr.

Tex., Texas City—Texas City Transportation Co. plans warehouse and oil docks. About $50,000.

Colo., Denver—Norton-Buick Auto Co. plans factory at 7th and Lincoln St. S. E. Norton, Mgr.

Colo., Rocky Ford—Rocky Ford Canning Co. plans to rebuild plant destroyed by fire.

Utah, Salt Lake City—Galigher Machinery Co., 165 Pierpont St., made plans for rein.-con. warehouse and machine shops, 5th St., W. Villadsen Bros., Inc., Dooly Bldg., Arch. Noted Sept. 28.

Ore., Portland—Dpernbecher Manufacturing Co., East 28th St. and Union Pacific tracks, plans 2-story addition to chair factory. About $50,000.

Calif., Los Angeles—Joannes Bros., 819 East 1st St., making plans for 6-story, rein.-con. and brick loft and factory building, Hewitt and Traction St. J. Parkinson, 420 Title Insurance Bldg., Arch.

Que., Montreal—F. W. Horner, Ltd., 142 St. Urbain St., making plans for factory. Ross & McDonald, 1 Belmont St., Arch.

Ont., Belleville—Maple Leaf Tire Co., Ltd., plans rein.-con. factory, about $100,000. H. C. Long, 695 Traders Bank Bldg., Toronto, Supt. Constr.

Ont., Galt—Dodge Metal Hose Co. of Canada, Ltd., plans plant at Galt. About $50,000. J. R. Cameron, Toronto, Wks. Mgr.

Ont., Toronto—T. E. Essery granted permit for warehouse at 1301 Queen St. About $18,000.

Man., Winnipeg—Carnefac Stock Food Co. plans 2-story concrete elevator block. About $25,000. J. S. Metcalf, Arch.

Bids In and Contracts Awarded

Maine, Orono—International Paper Co. let contract 2-story storehouse to H. P. CUMMINGS CONSTRUCTION CO., Ware, Mass.

Mass., Chelsea—Mexican Petroleum Corporation, 120 Broadway, New York, let contract oil distributing plant to H. P. CONVERSE CO., 88 Broad St., Boston, about $300,000.

Mass., Holyoke—J. J. Craven, 60 Summer St., let contract 1-story storage building to H. MARTINEAU, 1021 Dwight St., about $10,000.

R. I., Pawtucket—Eureka Dyeing Co., Kenworthy, Collins and Japonica St., let contract addition to CRUISE & SMILEY CONSTRUCTION CO., 12 East Ave., about $10,000.

Conn., Elmwood—New Departure Manufacturing Co., Bristol, let contract factory to LEVERING & GARRIGUES CO., 36 Pearl St.

Conn., New Britain—Beaton & Caldwell Manufacturing Co. let contract superstructure 6-story factory on Main St. to L. A. MILLER, Meriden. Noted Mar. 30.

Conn., New Haven—Baumann Rubber Co. let contract 3-story factory to C. W. MURDOCK.

Conn., Waterbury—Chase Rolling Mill Co. let contract 2-story storehouse to TORRINGTON BUILDING CO.

N. Y., Andover—Clay Cutlery Co. let contract 1-story, 50x100-ft. factory to D. HAWKINS, about $10,000.

N. Y., Cohoes—F. Gilbert Paper Co., Saratoga St., let contract manufacturing plant to C. P. BOLAND CO., Troy, about $100,000.

N. Y., Dunkirk—Dunkirk Glass Co. let contract 2-story addition to W. WASHINGTON, about $15,000.

N. Y., North Tonawanda—R. Wurlitzer Manufacturing Co., Sawyers Creek Rd., let contract addition to TURNER CONSTRUCTION CO., Prudential Bldg., Buffalo, $15,000.

N. Y., Rochester—New York State Rys., 367 State St., let contract car shop and heating plant to A. FRIEDERICHS & SONS CO., 710 Lake Ave., about $35,650.

N. Y., Rome—Rome Hollow Wire and Tube Co. let contract 1-story addition to W. G. JONES, Front St., about $25,000.

N. J., Elizabeth—L. F. Hersh & Bro., 207 Broad St., let contract 4-story warehouse to E. M. WALDRON & CO., 84 South 6th St., Newark, about $40,000.

N. J., Paterson—Victory Silk Finishing and Dyeing Co., 182 Madison St., let contract dye factory in Bleecker St. to D. HENRY BUILDING CO., 6 Smith St., Paterson. About $20,000.

Penn., Pittsburgh—Iron City Brewing Co., 34th St., let contract addition to bottling plant to H. A. BLOEDEL, 610 Armandale Ave., N. S., about $35,000.

Md., Baltimore—Canton Co., Commerce and Water St., let contract factory to be leased by Coco Nut Products Co., 280 Broadway, New York, to WEST CONSTRUCTION CO., Knickerbocker Bldg., about $100,000.

Md., Ellicott City—G. A. Gambrill Manufacturing Co. let contract flour mill to CONSOLIDATED ENGINEERING CO., 243 Calvert Bldg., Baltimore, about $100,000. Noted Aug. 31.

Md., Highlandtown—Continental Can Co. let contract 3-story factory to COWAN BUILDING CO., 106 West Madison St.

Va., Norfolk—Chesapeake & Ohio Ry. let contract warehouse foot Tazewell St. to HARWOOD & MOSS, Newport News, about $50,000.

Va., Petersburg—J. B. Worth & Co., Inc., let contract ice plant to J. P. WRIGHT, Petersburg, about $10,000. Noted Oct. 5.

W. Va., Princeton—Majestic Steam Laundry let contract brick building to McCONNELL BROS.

W. Va., Wheeling—Hazel Atlas Glass Co., 19th and Jacobs St., let contract 2-story plant to R. R. KITCHEN CO., National Bank Bldg., about $52,000.

Ky., Louisville—Louisville Provision Co. let contract 6-story, rein.-con. addition to ALT BUILDING CO., Louisville. About $40,000. Noted Oct. 19.

Ohio, Niles—Niles Glass Co. let contract addition to H. L. DIXON CO., Pittsburgh, Penn. About $50,000.

Ill., Chicago—Transo Envelope Co. let contract factory and boiler room to O. W. ROSENTHAL & CO., 80 East Jackson Blvd., about $35,000.

Ill., Quincy—American Strawboard Co. let contract additions to BUERLSEN & KAEMPIN, 500 South 6th St., about $40,000. Noted Aug. 17.

Ill., Rockford—B. Z. B. Knitting Co. let contract 4-story factory to G. HOLM, 1604 4th Ave. about $50,000.

Ill., Rockford—Rockford Paper Box Board Co. let contract addition to G. HOLM, 1604 4th Ave., about $150,000. Noted Oct. 19.

Ill., Rock Island—Rock Island Brewing Co. let contract 2-story bottling plant to H. W. HORST, Horst Bldg., about $70,000.

Wis., Ashland—Armour & Co., Union Stock Yards, Chicago, let contract packing plant to TOMLINSON & EGAN, Ashland, about $30,000.

Wis., Brandon—J. Hubler let contract hemp plant to J. E. JOHNSON, about $10,000.

Minn., Howard Lake—Farmer's Dairy Association let contract creamery to H. SWANSON, Dassel, about $12,000.

Minn., St. Paul—Equity Coöperative Exchange Co., 209 Pioneer Bldg., let contract grain elevator to GRANT, SMITH & CO., 1516 Pioneer Bldg., about $140,000.

Mont., Poplar—Farmers' Equity Co. let contract elevator to THOMPSON CO., Lewistown, about $40,000.

Calif., Los Angeles—Lyon Fireproof Storage Co., let contract 7-story, 80x80-ft. rein.-con. storage building at 1950 South Vermont Ave., to RICHARDS-NEUSTADT CONSTRUCTION CO., Wright & Callender Bldg., Los Angeles.

Calif., Oakland—Judson Manufacturing Co., 819 Folsom St., to build factory by day labor. About $100,000.

Ont., Guelph—Dominion Linens, Ltd., let contract addition to plant to R. ROGERS, Douglas St., about $10,000. Noted July 13.

Ont., London—Middlesex Mills, 1115 Dundas St., let contract dry kiln to SANDERS & ROBINSON, Oxford St.

Ont., Toronto—Canadian National Carbon Co., 99 Paton Rd., let contract 3 factory buildings to J. V. GRAY CONSTRUCTION CO., LTD., Confederation Life Bldg., about $25,000.

Ont., Toronto—Northrop & Lyman Co., Ltd., 86 Richmond St., W., let contract 4-story brick factory and warehouse to S. L. YOLLES, 67 Baldwin St. About $75,000. Noted Sept. 21.

FEDERAL GOVERNMENT WORK

Proposed Work

R. I., Melville—Torpedo Storehouse—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 13, at Naval Coal Station.

R. I., Newport—Sea Wall—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 4, Naval Torpedo Station. Noted Oct. 12.

N. Y., New York—Dredging—Bureau Yards and Docks, Navy Dept., Washington, D. C., making plans for dredging in connection with Navy Yard.

N. Y., New York—Paving—Bureau Yards and Docks, Navy Dept., making plans for wood-block paving at Navy Yard, New York. Noted June 8.

N. J., East Orange—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Nov. 27. Noted Apr. 27.

Va., Monroe—Water System—Quartermaster, Ft. Monroe, receiving bids Oct. 27, Ft. Monroe.

La., New Orleans—Levee Work—U. S. Engr. Office, Queen and Crescent Bldg., receiving bids Nov. 3 for about 498,000 cu.yd. earthwork Lafourche Levee Dist.

S. D., Rosebud—Buildings—Dept. of Interior, Office Indian Affairs, Washington, D. C., receiving bids Nov. 15, Rosebud School. Cato Sells, Comr.

Tex., El Paso—Levee Work—U. S. Rec. Ser., Mills Bldg., receiving bids Nov. 24 for about 185,000 cu.yd. canal work and 29,000 cu.yd. levee work. M. Bien, Act. Dir. (See adv.)

Tex., San Luis—Coast Guard Station—Treasury Dept., U. S. Coast Guard, Washington, receiving bids Nov. 28 for coast guard station and accessories, San Luis, Galveston Island. (See adv.)

Idaho, Twin Falls—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Dec. 6.

Calif., San Diego—Crane—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 20, Naval Coal Depot. Noted Oct. 12.

Federal Government Work (Continued)

Calif., Tiburon—Dredging—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 13. Noted Oct. 12.

Panama—Miscellaneous—Maj. E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Nov. 10.

Bids In and Contracts Awarded

Maine, Skowhegan—Post Office—Superv. Arch., Treasury Dept., let contract to W. H. FISSELL & CO., New York, $57,650. Noted Oct. 12.

N. H., Berlin—Post Office—Superv. Arch., Treasury Dept., rejected bids. Noted Oct. 12.

Mass., Boston—Extending Shipbuilding Ways—Bureau Yards and Docks, Navy Dept., received low bids, Navy Yard, Boston, from Crandall Engineering Co., East Boston, $6,730; G. T. Rendle Co., Boston, $5,696; Rendle-Stoddard Co., Boston, $6,883. Noted Sept. 28.

Conn., New London—Dredging—Bids received Oct. 13 dredging (a) New Haven Harbor, (b) Norwalk Harbor, (c) Stamford Harbor, from Maritime Dredging Co., 50 East 42nd St., New York, (a) 18.5c., (b) 17c., (c) 22c.; Boston Dredging Co., 40 Central St., Boston, (a) 17.9c. Noted Oct. 5.

N. J., Bayonne—Post Office—Superv. Arch., Treasury Dept., Washington, D. C., received bids (a) limestone, (b) sandstone, from E. T. Abbott Construction Co., New York, (a) $95,890, (b) $98,600; Frymier & Hanna Co., New York, (a) $106,794, (b) $112,000; W. H. Fissell & Co., New York, (a) $131,700, (b) $142,500. Noted Sept. 21.

Penn., Du Bois—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., Received bids (a) limestone, (b) sandstone, from W. H. Fissell & Co., Lafayette, Ind., (a) $94,900, (b) $100,000; R. S. Moore, Lafayette, Ind., (a) $90,647, (b) $93,769; T. W. Cissell & Co., Wooster, Ohio, (a) $91,000; (b) $93,900. Noted Sept. 14.

D. C., Washington—Streets—Dist. Comrs. let contract grading and improving streets, roads and avenues in district to W. F. BRENIZER CO., Washington. Noted Sept. 28.

Va., Norfolk—Dry Dock—Bureau Yards and Docks, Navy Dept., received bids from George Leary Construction Co., 17 State St., New York, $2,442,594; H. P. Converse Co., Boston, $2,845,889; Maryland Dredging and Contracting Co., Baltimore, $3,223,062; Arthur McMullen and Olaf Hoff, New York, $3,279,354. Noted Sept. 21.

W. Va., Buckhannon—Post Office—Superv. Arch., Treasury Dept., received low bids (a) limestone, (b) sandstone, from V. E. Taylor, Huntington, W. Va., (a) $38,800; Olin Gerlach, Frostburg, Md., (a) $41,295, (b) $42,500; R. S. Moore, Lafayette, Ind., (a) $41,700, (b) $42,700. Noted Sept. 7.

S. C., Charleston—Dredging—Bureau Yards and Docks, Navy Dept., let contract, $50,000 cu.yd., Copper River, to L. T. GAYLORD, New York, 12.97c. cu.yd. Noted Oct. 12.

Mich., Detroit—Mail Handling Devices—Bids received Oct. 16 from Lamson Co., 100 Boylston St., Boston, $22,753; Alvey-Ferguson Co., Cincinnati, $23,700; S. Olsen & Co., Chicago, $23,900. Noted Aug. 31.

N. D., Dickinson—Post Office—Superv. Arch., Treasury Dept., received bids (a) limestone, (b) sandstone, from Charles Weitz Sons, Des Moines, (a) $71,280, (b) $74,000; W. D. Lovell, Minneapolis, (a) $74,322, (b) $78,770; Olson & Johnson Co., Missoula, Mont., (a) $74,430, (b) $74,680. Noted Sept. 7.

Wyo., Ft. Laramie—Canal Work—U. S. Rec. Ser. let contract Schedules 1 to 7, earthwork and structures, Ft. Laramie Canal, North Platte Project, to WINSTON BROS. CO., Minneapolis, Minn., $32,147. Noted Oct. 19.

Mont., Malta—Reclamation—U. S. Rec. Ser. let contract structures on Milk River Project to BOOTH & KNIPE, Saco, about $28,384. Noted Oct. 12.

Mont., St. Ignatius—Canal Work—Low bidders Flathead Project, (a) Schedule 1, (b) Schedule 2, (c) Schedule 3, (d) Schedule 4, were: J. E. Hilton, Billings, (a) $14,045, (b) $13,770, (c) $10,110; N. Rich, Dixon, (a) $17,928, (b) $17,616, (c) $13,600, (d) $19,725; Mendenhall, Bird & Co., Springville, Utah, (a) $16,455, (b) $15,290, (c) $12,796, (d) $26,533. Noted Sept. 14.

CANALS, DITCHES AND IRRIGATION

Proposed Work

Ohio, Bellefontaine—Ditch Improvement—Comrs. Shelby, Logan and Auglaize Counties soon receive bids for improving Muchinippi Creek Ditch. About $51,000. Address County Clk., Sidney. Noted Mar. 2.

Ind., Muncie—Drainage—Delaware and Henry Counties making surveys for draining Brush Creek, about $100,000.

Ind., Plymouth—Ditch—Marshall County receiving bids Nov. 4 for Seraphine Schub Ditch. A. W. Thomson, Plymouth, Surv.

IIII., Quincy—Drainage—Comrs. Indian Grave Drainage Dist., 615 Hampshire St., receiving bids Nov. 11, about 1,154,000 cu.yd. ditches for drainage. W. A. Grieser, Chn. Comrs. Noted Sept. 7.

Iowa, Burlington—(Official)—Drainage—Des Moines County receiving bids Nov. 1, Dist. No. 6. A. J. Wirth, Burlington, Audr.

Minn., Albert Lea—Ditch—Freeborn and Wasceca Counties soon receive bids for Judicial Ditch No. 2. About $166,000. Address County Clk., Albert Lea.

Minn., Duluth—Ditch—St. Louis County receiving bids Oct. 31 for County Ditch No. 6 to drain land between Whiteface River on east and St. Louis River on west. About $250,410. O. Halden, Duluth, County Audr. Noted Oct. 12.

Minn., Morris—Ditch—Stevens County received no bids for Ditch No. 33. Noted Oct. 5.

Minn., Redwood Falls—Ditch—Redwood County receiving bids Oct. 31 for Ditch No. 9, about $115,155; Ditch No. 39, about $12,052; Ditch No. 17, about $69,480; Ditch No. 18, $125,241. L. P. Larson, Redwood Falls, County Audr.

Neb., Auburn—Drainage—Drainage Dist. No. 3, Nemaha County, receiving bids Nov. 4 for about 9 mi. channel including 335,000 yd. excavation. J. F. Relf, Falls City Engr. Noted Jan. 27.

Tex., Donna—Drainage—Hidalgo County Drainage Dist. No. 1 receiving bids Oct. 30 for Sects. 1, 2 and 3 of protection levee. C. S. Clark, Donna; Dist. Engr.

Ore., Prineville—Irrigation—Ochoco Irrigation Dist., Crook County, plans election to vote on bonds for irrigating about 23,400 acres. R. W. Rea, Prineville, Project Engr.

Calif., Terra Bella—Irrigation—Bd. Dir. Terra Bella Irrigation Dist. receiving bids Nov. 13 for 1st unit of project. About $500,000. S. T. Kieffer, 57 Post St., San Francisco, Ch. Engr. Noted May 25.

Bids In and Contracts Awarded

N. Y., Albany—(Official)—Barge Canal Work—Low bidders Barge Canal work (a) Contract No. 19-A, Erie Canal, Sect. 11, redredging; (b) Contract No. 139, Oswego Canal, Sect. 1, excavating channel of Oswego River; (c) Contract No. 140, Champlain Canal, Sect. 1, bank protection along Hudson River near Waterford; (d) Terminal Contract No. 19, dredging, bulkhead, wall and pier at Greenpoint, Brooklyn; (e) Terminal Contract No. 26, pier and dredging terminal basin in Lake Champlain, Rouses Point; (f) Terminal Contract No. 53, dock wall along Dead Creek and Ohio Basin, Buffalo, were: H. S. Kerbaugh, Inc., Telephone Bldg., Buffalo, (a) $169,759, (b) $25,912, (f) $554,500; Great Lakes Dredge and Dock Co., Buffalo, (a) $216,053; Eastover Construction Co., Utica, (a) $218,227; J. Stewart & Co., Inc., New York, (b) $29,980; Holler & Shepard, E. & B. Bldg., Rochester, (c) $4,559; Farrell & McEntee, Ft. Edward, (c) $4,565; W. R. Kimmey, Albany, (c) $4,700; Mason, Hilton & Co., 17 Battery Pl., New York, (d) $207,383; Riverside Contracting Co., New York, (d) $219,216; E. B. Baker, Herkimer, (d) $227,829, (e) $59,600; J. E. Byron & Co., Cohoes, (e) $55,678; A. A. Parker, Waterford, (e) $59,542; Walsh Construction Co., Davenport, (f) $532,584; Larkin & Sangster, Buffalo, (f) $534,615. Noted Sept. 21.

N. Y., Albany—(Official)—Barge Canal Work—State Supt. Pub. Wks. let contract barge canal work, Contract No. 2, Olean flood abatement work, to LORD CONSTRUCTION CO., 105 West 40th St., New York, about $64,716. Noted Sept. 28.

N. Y., New York—(Brooklyn)—(Official)—Dredging—Borough let contract Newtown Creek Canal to J. & J. McSPIRIT, 118 Wayne St., Jersey City, about $7.020. Noted Oct. 19.

Ill., East St. Louis—Dredging—Contract dredging in East Side Levee and Sanitary Dist. let to A. B. WILLS & SONS, St. Louis, $200,000. Noted Aug. 12, 1915.

Iowa, Emmetsburg—Ditch—Palo Alto County let contract Ditch No. 92 to A. EIKEWALD, Emmetsburg, about $4,425; tile work in Ditch No. 21 about $4,374.

Iowa, Jefferson—Drainage—Green County let contracts to MATTHEWS BROS., Erie, drain, 11c. per yd.; JEFFERSON CEMENT PRODUCTS CO., labor, $57,563.

Minn., Crookston—(Official)—Ditch—Polk County let contract Ditch No. 103 to UNION DRAINAGE CO., Crookston, about $5,165. Noted Oct. 5.

Minn., Fairmont—Ditch—Martin County let contract Judicial Ditch No. 60 to C. A. WALB, La Grange, about $9,903; tile work to CEYLON CEMENT TILE CO., Ceylon, $41,500. Noted Oct. 26.

Minn., Fairmont—Ditch—Martin County let contract Judicial Ditch No. 71 to O. M. ANDERSON, Somers. Noted Oct. 5.

Minn., Glyndon—Canal—Northern Pacific Ry. let contract canal to turn course of Buffalo River to WINSTON BROS. CO., 101 Globe Bldg., Minneapolis.

Minn., Long Prairie—(Official)—(Ditch)—Tood County let contract Ditch No. 33 to ALDEN & TAHERY, Bertha. Noted Sept. 21.

Minn., Moorhead—(Official)—Ditch—Clay County let contract excavation for Ditch No. 2 to KING & EICHMILLER, Frazee, about $4,112. Noted Oct. 5.

Minn., Morris—Ditch—Stevens County let contract Ditch No. 29 to TELFORD & GREEN, Benson, about $10,551. Noted Oct. 5.

Minn., Owatonna—Ditch—Steele County let contract Ditch No. 5 to E. L. HAINES, Owatonna, about $5,319.

Minn., Roseau—(Official)—Ditch—Roseau County let contract excavation Judicial Ditch No. 63 to NORTHERN MINNESOTA DRAINAGE CO., Litchfield, at 10.10c. per cu.yd. Noted Sept. 28.

Minn., St. James—(Official)—Ditch—Watonwan County let contract Judicial Ditches Nos. 14 and 15 to H. TRUILSON, Westbrook, about $18,858. Noted Sept. 28.

Kan., Westmoreland—Channel—Bd. Dir. Belvue Drainage Dist. received low bid changing channel of Vermillion River and 2 tributaries from Munn-Reise Construction Co., Daniels Bldg., Kansas City, about $36,198. Noted Oct. 12.

Neb., Hartington—Ditch—County let contract Brookey Bottom Ditch to W. HOHERSON, Yankton, S. D. Noted Sept. 28.

Calif., Los Angeles—Drainage—Dominguez Estate Co., 807 Title Insurance Bldg., let contract drainage and storm water canal for conveying surface water from Nigger Slough to point near Watson Station on Pacific Electric Ry., Los Angeles-San Pedro Line to T. J. SHEA, 203 Oxford Ave., about $35,000. Noted Sept. 28.

Calif., Oakdale—(Official)—Widening Canals—Bd. Dir. Oakdale Irrigation Dist. let contract widening canals at Two Mile Bar to TIESLAN BROS., Oakland, about $5,000. Noted Oct. 12.

Calif., San Jose—Ditch—Santa Clara County received low bids drainage ditch Dists. Nos. 4 and 5 from L. T. McFADDEN, $5,114.

MISCELLANEOUS

Proposed Work

Maine, South Brewer—Fire House—City plans. W. E. Mansur, Arch.

R. I., Kent—(Hope post office)—(Official)—River Improvements—City plans concrete conduit about 500 ft. long, 25 ft. wide and 21 ft. high in rock foundation, together with approach channels and other appurtenant works for diverting flow of Pawtuxet River across site of main dam of Scituate Reservoir. F. E. Winsor, 661 Westmister St., Ch. Engr.

Conn., Bolton Notch—Elimination of Grade Crossings—State Highway Comn., Hartford, plans. C. J. Bennett, Hartford, State Highway Comr.

N. Y., Hornell—Coal Pockets and Interlocking Switch System—Erie R.R. plans to spend about $80,000. W. J. English, Hornell, Div. Supt. R. S. Parsons, 50 Church St., New York, Ch. Engr.

N. Y., New York—(Boroughs of Bronx and Queens)—Signal Towers—Pub. Ser. Comn. for First Dist., 120 Broadway, Manhattan, receiving bids Nov. 9 (extension of date), for 13 signal towers on River Rd. Ave. and Jerome Ave. extension of Seventh Ave.-Lexington Ave. line, White Plains Rd. line and Queensboro Subway. Noted Oct. 12.

N. J., Trenton—(Official)—Filling—Comptroller of Treasury, State House, receiving bids Oct. 27 for about 12,000 cu.yd. filling on lands in rear of State Capitol, State House Park. E. I. Edwards, Comptroller. (See adv. Oct. 19 issue.)

N. J., Trenton—(Official)—Park Improvements—State House Comn., State House, receiving bids Oct. 27 for grading, laying of pipes, building paths, etc., at State House Park. E. I. Edwards, Comptroller, Secy. State House Comn. (See adv. Oct. 19 issue.)

Penn., Bethlehem—Elimination of Grade Crossings—Pub. Ser. Comn. plans to eliminate 5 grade crossings in Bethlehem and South Bethlehem. About $1,000,000. A. M. Cawley, City Engr.

Penn., Philadelphia—Fire Station—City plans 2-story addition, Oak Lane. C. E. Albright, City Engr.

Ky., Covington—Elimination of Grade Crossings—Louisville & Nashville R.R. and Chesapeake & Ohio Ry. plans to eliminate all crossings in city. W. H. Courtneay, Louisville, Ch. Engr. of former and F. I. Cabell, Richmond, of latter.

Ohio, Cincinnati—Fire Station—City receiving bids Nov. 21, West 6th St. F. Krug, City Engr.

Ohio, Cincinnati—Ice Skating Rink—D. J. Dickson plans, Peebles Corner, about $35,000. Preliminary plans made.

Ohio, Cincinnati—Tunnel—Bd. Education receiving bids Nov. 16 for tunnel for Industrial Arts Building, power house and stadium at East Side High School. C. W. Handman, Business Mgr.

Ohio, Hamilton—Parks and Playgrounds—City plans $10,000 bond issue. F. E. Weaver, City Engr.

Ohio, Lima—River Improvements—City soon receives bids for improving Ottawa River, about $100,000. C. H. Bryson, City Engr. Noted May 25.

Ohio, Lorain—Coliseum—Lorain Ad. Club plans to sell $35,000 stock for coliseum.

Ill., Chicago—Bathing Beaches—City election Nov. 7 to vote on $2,450,000 bonds, bathing beaches, parks, playgrounds and swimming pools. A. E. Block, Chn. City Special Parks Comn. Noted Sept. 7.

Wis., Milwaukee—(Official)—Animal House—Bd. Park Comrs. rejected bids, Washington Park. About $50,000. New bids. F. Schumacher, Secy. Noted Oct. 5.

Wis., Milwaukee—Docks—Dept. Pub. Wks. receiving bids Oct. 28 for Dock No. 1, foot National

Miscellaneous (Continued)

Ave.; Dock No. 2, foot alley between Fowler and Clybourn St.; Dock No. 3, along Milwaukee River, west side, north Fowler St. F. G. Simmons, Comr. Pub. Wks.

Neb., Omaha—Elimination of Grade Crossings—County Comrs. and officials of Union Pacific R.R. plan, Sarpy Crossing. R. L. Huntley, 15th and Dodge St., Omaha, Ch. Engr.

Neb., Omaha—Elimination of Grade Crossing—Missouri Pacific Ry. made plans, Dodge, Douglas and Farum St. About $200,000. E. A. Hadley, Railway Exchange Bldg., St. Louis, Ch. Engr. Noted June 22.

Tex., Dallas—Levee—Dallas County Levee Impvt. Dist. No. 1 voted $48,000 bonds for 10-mi. levee along Trinity River and Cottonwood Creek. Address County Clk., Dallas. Noted Oct. 12.

Tex., Texas City—Levee—Pierce-Fordyce Oil Association plans around oil refinery and auxiliary plant. About $25,000.

Tex., Wichita Falls—Park Improvements—City election Nov. 7 to vote on $7,500 bonds. L. C. Hinckley, City Engr.

Okla., Tulsa—Subway—Midland Valley R.R. plans to spend about $50,000. R. C. Kaighn, Muskogee, Ch. Engr.

Colo., Denver—Bath House—American Smelting and Refining Co. plans, 5100 Pennsylvania St., about $11,000.

Ore., Oswego—Docks—Oregon Portland Cement Co. plans.

Calif., Colton—(Official)—Bulkhead—County received no bids bulkhead along Santa Ana River. Work deferred until next year. J. A. Sourwine, San Bernardino, County Engr. Noted Sept. 21.

Calif., Los Angeles—Wharf, Transit Shed, Etc.—Building Dept. granted permit for 50x900-ft. wharf, 100x502-ft. shed and 60x304-ft. fish-market building. Homer Hamlin, City Engr.

Calif., San Bernardino—River Protection—Bd. County Supervs. receiving bids Oct. 30, along Mohave River. L. R. Patty, San Bernardino, County Clk.

Que., Notre Dame de Grace—Subway—Railway Comn., Montreal, adopted plans for subway under tracks Canadian Pacific Ry., Melrose Ave.

Ont., Hamilton—Subway—Council making plans, under tracks of Grand Trunk Ry. between Dunderrin Park and Bay Shore. About $6,000. E. R. Gray, Engr.

Ont., Oakville—Fire Hall—Council accepted plans to W. Connery, 72 Queen St., W., Toronto. About $8,000.

Ont., Preston—Subway, Etc.—Council plans rein.-con. subway and bridge. About $50,000. C. S. McKenzie, City Engr.

Bids In and Contracts Awarded

Mass., Boston—(Official)—Fence—City let contract fence around Suffolk County Jail to W. PREBLE CO., 11 Pemberton Sq., about $7,242.

Mass., Boston—(Mattapan)—Fire Station—City let contract to P. H. ROSE CONSTRUCTION CO., 730 Washington St., about $15,950. Noted Oct. 5.

Mass., Boston—(South Boston)—Fire Station—City let contract to CROWLEY & HICKEY, 1140 Columbus Ave., $31,198. Noted Oct. 12.

Mass., Boston—(Charlestown)—Sea Wall and Bulkhead—Revere Sugar Refinery, 15 Broad St., let contract Mystic River to HOLBROOK, CABOT & ROLLINS CORPORATION, 6 Beacon St., about $55,000.

Mass., Millers Falls—(Official)—Head Gate Walls, Etc.—Millers Falls Co. let contract concrete head gate walls and concrete canal walls to H. P. CUMMINGS CONSTRUCTION CO., Ware.

Mass., Somerville—Bathhouse—City let contract to J. E. L. McLEAN, 10 Faneuil Sq., Boston, about $5,500. Noted July 27.

N. Y., New York—(Bronx)—Filling—O. Daniels, Woolworth Bldg., Manhattan, at $74,341, low bidder filling swamp lands, southerly portion Van Cortlandt Park. Noted Oct. 12.

N. Y., New York—(Brooklyn)—(Official)—Track Floors and Platforms—Low bidders concrete track floors and platforms over mezzanines of 11 stations on Culver Rapid Transit R.R. between 37th St and 10th Ave. and intersection of Gravesend Ave. and Ave. X were: Snare & Triest, Woolworth Bldg., Manhattan, $52,654; A. L. Guidone & Son, $57,614; Jobson, Gifford Co., $57,180. Noted Oct. 5.

N. Y., New York—(Manhattan)—Elevated Railway Work—New York Municipal Ry. Corporation received bids Oct. 9 erecting 3rd rail and track rail bonding in connection with Broadway-Fourth Avenue line on Manhattan Bridge and Canal St. from Lewis H. Woods Construction Co., 2355 Jerome Ave., Bronx, $220,000; Jobson-Gifford Co., 30 East 42nd St., $223,000; T. H. Reynolds Contracting Co., 13 Park Row, $228,600.

N. Y., New York—(Manhattan)—(Official)—Pier—Contract extending Pier No. 47, Perry St., North River, let to A. N. SPOONER & SON, $12,500. Noted Aug. 10.

N. Y., New York—(Manhattan)—(Official)—Station Finish—Contract station finish for 6 stations on Rapid Transit Railroads now being constructed under Dual System let to L. WECHSLER, 133 Broadway, $383,000. Noted Oct. 12.

N. J., Hoboken—Piers—Hoboken Land and Improvement Co. let contract to HENRY STEERS, INC., 17 Battery Pl., New York, $350,000. Noted Aug. 24.

N. J., Moorestown—Fire House—Moorestown Hose Co. No. 1 let contract to H. VENNELL, Moorestown, about $6,500. Noted Oct. 12.

Penn., Philadelphia—Playground Improvements—Bd. Recreation let contract Berks and Blair St., to MITCHELL BROS., 2125 Race St., about $44,500. Noted Oct. 12.

Penn., Philadelphia—Playground Improvements—Bd. Recreation let contract, 24th and Jackson St., to MITCHELL BROS., 2125 Race St., about $47,000. Noted Oct. 12.

Va., Norfolk—Pier—Chesapeake & Ohio Ry. let contract, foot of Tazewell St., to HARWOOD & MOSS, Newport News, about $100,000. Noted Oct. 5.

Ga., Augusta—(Official)—Bulkhead and Gates—River and Canal Comrs. let contract for water control across Butler's Creek to E. W. HANCOCK, 801 Cranford Ave., about $36,860. Noted Oct. 5.

La., New Orleans—Levee—State Engrs. let contract St. Gabriel Church Levee, Iberville Parish, to G. W. GARIG CONSTRUCTION CO.

Ohio, Cleveland—Bathhouse—J. Makoff, 3533 Woodland Ave., let contract to DOLINSKY BROS., 1894 East 65th St., about $20,000.

Ohio, Cleveland—(Official)—Comfort Station—City rejected bids, Euclid Ave. and 55th St. Noted Sept. 28.

Ohio, Cleveland—(Official)—Comfort Station—City rejected bids, West 14th and Abbey St. Noted Sept. 28.

Ohio, Cleveland—Comfort Station—City let contract, Brookside Park, to F. A. SKEEL, about $8,532. R. Hoffman, City Engr.

Ohio, Cleveland—Market—City let contract, Euclid Ave. and Superior St., to G. A. RUTHERFORD CONSTRUCTION CO., 2160 East 18th St. About $110,000.

Ohio, East Youngstown — Bathhouse — J. G. Brody, 721 Himrod Ave., let contract to B. RUDICK, 711 Myrtle Ave., Youngstown, about $16,000.

Ind., Indianapolis—Comfort Station—Bd. Pub. Wks. received bids removal of comfort station from Kentucky Ave. from Shiel Construction Co., $14,997, and G. Schauer & Son, $9,795.

Wis., Ashland—(Official)—Dock—Chicago & Northwestern Ry. let contract to G. SMITH & LEE, St. Paul, about $1,500,000. Noted Oct. 5.

Okla., Cushing—Pipe Line—Sinclair Oil Co., Tulsa, let contract to BOOTH & FLINN, 1942 Forbes St., Pittsburgh. Noted Sept. 7.

Ore., Oregon City—Dock and Warehouses—City let contract to F. BUSCH, about $10,000.

Calif., Colusa—Levee Work—City rejected bids raising water-front levee. Work to be done by day labor.

Calif., San Francisco—Sea Wall—State Bd. Harbor Comrs. received low bids between Jones and High St. from Blake Bros., $66,150; Daniel Contracting Co., $67,950; Healy-Tibbits Construction Co., $88,650.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Conn., Fairfield—(Official)—School—Town receiving bids Feb. 1, 2-story addition. About $40,000. Skinner & Walker, 1188 Main St., Bridgeport, Arch. Noted Oct. 19.

Conn., Hartford—A. Lindsey, 45 Weathersfield Ave., making plans for 2-story addition to home, about $50,000. B. W. Morris, 101 Park Ave., New York, Arch.

Conn., South Norwalk—Hospital—Norwalk Hospital Association making plans, 3-story, about $100,000. W .A. Boring, 32 Broadway, New York, Arch.

N. Y., Canton—New York State School of Agriculture receiving bids Oct. 28 for addition. Lewis F. Pilcher, Capitol, Albany, Arch.

N. Y., Elmira—Dormitory—Pierce & Bickford, Arch. and Engr., 118 Lake St., receiving bids Oct. 28, 3-story, 40x142-ft., at Elmira College. About $50,000. Noted Oct. 19.

N. Y., Endicott—Theater—Benjamin A. Dittrich, Parsons Ave., receiving bids Oct. 30, Washington and Monroe St.

N. Y., Ft. Edward—Church—St. Joseph's Congregation plans, 1½-story, about $60,000. M. L. and H. G. Emery, Bible House, New York, Arch.

N. Y., Lockport—Niagara County plans tuberculosis hospital, about $100,000. F. A. Carlton, R. F. D. No. 1, Lockport, Chn. Bd. Superv. C. Phelps, Gluck Bldg., Niagara Falls, Arch.

N. Y., New Hampton—(Official)—Dept. Correction, Room 2400, Municipal Bldg., New York, receiving bids Nov. 10, 4-story building. William Goldsmith, New Hampton, Constr. Engr. Noted Sept. 21.

N. Y., Syracuse—Y. W. C. A. making plans for buildings, about $150,000. Taylor & Bonta, 615 Gurney Bldg., Arch. M. F. Tracey, Montgomery St., Secy.

N. Y., Walkill—Auditorium and High School—School Bd. making plans, 3-story. G. E. Lowe, 261 Fair St., Kingston, Arch. W. Thompson, Pres. Bd. Trustees.

N. J., Bridgeton—High School—Bd. Education making plans, 2-story. About $125,000. G. W. McGowan, Bridgeton, Secy. E. Z. Scholl, 31 North 16th St., Reading, Arch. Noted Sept. 21.

N. J., Perth Amboy—Perth Amboy Savings Institution making revised plans, 2-story, 50x75-ft. bank, store and office building. About $75,000. Holmes & Winslow, 103 Park Ave., New York, Arch.

N. J., Ridgewood—High School—Bd. Education making revised plans. Noted Aug 31.

N. J., West Orange—Hotel—P. H. Smith, Northfield Ave., interested in company to build, 2-story, 100x150-ft. About $40,000.

Penn., Berwick—Bower Memorial United Evangelistic Church plans, church at 2nd and Arch St. About $50,000. E. B. Bailey, 139 East Front St., Pastor.

Penn., Butler—Comrs. Butler County receiving bids about Feb. 1 for tuberculosis hospital, about $50,000. Harry Wimer, Arch.

Penn., Carlisle—School—Dickinson School of Law making plans, 2-story, 63x145-ft. About $40,000. J. P. McKeehan, Chn. Bldg. Com. R. R. Harkley, Patriot Bldg., Harrisburg, Arch. Noted June 8.

Penn., Centerville—Grade and High School—Bd. Education making preliminary plans for vocational grade and high school, 2-story, about $50,000. H. W. Altman, First National Bank Bldg., Uniontown, Arch.

Penn., Coatesville—National Bank of Chester Valley plans to alter and enlarge bank, store and apartment building. About $60,000. H. E. Stone, 116 East Main St., Cashier.

Penn., McKees Rock—School—Bd. Education plans election Nov. 7 to vote on $150,000 bonds.

Penn., Philadelphia—Convention Hall—City soon lets contract, 22nd and Callowhill St., about $1,438,000 available. G. R. Datesman, Dir. Dept Pub. Wks.

Penn., Philadelphia—First Reformed Church making plans for church and Sunday school, 2-story, 50th and Locust St., about $60,000. Stuckert & Co., Crozer Bldg., Arch.

Penn., Philadelphia—Hotel—Kugler Restaurant Co., 1412 Chestnut St., making plans, 18-story, 30 South 15th St. About $2,000,000.

Penn., Pottsville—Miners' National Bank making revised plans for alterations to building. About $40,000. Mowbray & Uffinger, 56 Liberty St., New York, Arch.

Penn., St. Clair—Parish House—S. S. Peter and Paul Church receiving bids Oct. 30, 3-story. W. D. Hill, Pottsville, Arch.

Penn., Sunbury—School—City plans election in November to vote on $160,000 school bonds.

Penn., Swissvale—High School—City receiving bids about Jan. 1, about $180,000. C. Howard Lloyd, Telegraph Bldg., Harrisburg, Arch

Va., Roanoke—Hotel—Norfolk & Western R.R. plans addition, 5-story, about $125,000. A. C. Needles, N. & W. Bldg., Gen. Mgr. Frye & Chesterham, Kirk Ave., Arch.

W. Va., Huntington—School—Bd. Education receives bids about Nov. 1, 2-story. About $50,000. V. T. Ritter, First National Bank Bldg., Arch.

N. C., Henderson—Church—First Baptist Congregation made plans. About $50,000. J. J. McMichael, Charlotte, Arch.

Tenn., Ooltewah—Seventh Day Adventists plan institution to be known as Southern Training College. About $125,000. Address Bd. Trus., Southern Training School, Graysville.

Ky., Ashland—Bank and Office—Ashland National Bank, 17th and Winchester St., plans, 14-story. About $300,000. J. Russell, Pres.

Ohio, Briggsdale—School—Bd. Education receiving bids Nov. 6, Franklin Township Rural Dist. Bassett & Tresselt, Central National Bldg., Columbus, Arch.

Ohio, Cleveland—Church—East End Baptist Church, Euclid and 97th St., made plans. About $80,000. M. W. Maurer, 1335 Schofield Bldg., Arch.

Ohio, Cleveland—Church—Sacred Heart of Mary Congregation receiving bids Nov. 1, on Pearl Rd. About $125,000. Henry Walsh, 255 Lennox Bldg., Arch.

Ohio, Cleveland—Freight House and Office Building—Baltimore & Ohio Railroad Co. making plans, on West St. About $135,000. A. Lang, Arch. R. N. Begien, City Engr.

Ohio, Elyria—Theater and Store—Majestic Mutual Building Co. plans 1- and 2-story. About $100,000. P. Rissman, Elyria Blk., Arch.

Ohio, Findlay—School—Jackson Township plans election to vote on $60,000 bonds.

Ohio, Granville—High School—City election Nov. 7 to vote on $60,000 bonds, 2-story. W. W. Butt, Pres. Bd. Education.

Ohio, Hamilton—City Hall—City plans voting on $300,000 bonds. Charles Manny, City Clk. Noted June 15.

Ohio, Hilliards—Grade and High School—Norwich Township receiving bids Nov. 15, 2-story.

Buildings (Continued)

About $40,000. Frank L. Packard, 1212 Gayden Bldg, Columbus, Arch. Noted Sept. 7.

Ohio, Lima—High School—Bd. Education making plans, about $400,000. McLaughlin & Hulsken, 610 Savings Bldg., Arch. Noted Sept. 21.

Ohio, Marion—Hotel—Lewis Hotel Co. soon receives bids, 7-story, 60x135-ft., about $125,000. Thies & Thies, 5th floor, Davies Bldg., Dayton, Arch. Noted Aug. 10.

Ohio, Milford—Church—St. Andrews Congregation plans. About $40,000.

Ohio, Newark—School—Parish of St. Francis De Sales soon to receive bids, 2-story. About $60,000. Howard & Merriam, Columbus, Arch. Noted Aug. 24.

Ohio, Portsmouth—Security Savings Bank and Trust Co. making plans for 3-story bank, store and office building. About $50,000. Ritter & Bates, 45 First National Bank Bldg., Arch.

Ohio, Warren—Schools—Bd. Education votes Nov. 7 on $430,000 bonds for 3 schools. Ruth E Dillon, Clk.

Ohio, Warrensville—Council plans $100,000 bond issue to enlarge tuberculosis sanitarium. L. T. Beman, City Hall, Cleveland, Dir. Pub. Welfare.

Ind., South Bend—Hotel—Jefferson Hotel Co. plans 4-story, 56x165-ft. hotel to be leased by Van Volkenburg Bros., Plaza Hotel, Danville. F. C. Toepp, 525 West Washington Ave., interested. Lewis & Dougherty, 35 North Dearborn St., Chicago, Arch.

Mich., Grand Rapids—Auditorium—Bd. Education soon to receive bids for 3-story, 60x100-ft. About $50,000. H. H. Turner, North Division St., Grand Rapids, Arch.

Mich., Kalamazoo—O. Wenderoth, Arch., 1907 South Michigan Ave., Chicago, receiving bids Oct. 30 for 3-story bank, store and office building for First National Bank. About $165,000. E. H. Shepherd, Kalamazoo, Cashier. Noted June 22.

Mich., Traverse City—High School—Bd. Education soon to receive bids, 2-story, 136x80-ft. About $100,000. Jene S. Peperson, Arch. Noted Feb. 17.

Ill., Chicago—Freight Terminal—Chicago & Alton Railroad Co. receives bids about Nov. 15, 3- and 5-story. About $500,000. H. T. Douglas, Jr., Transportation Bldg., Chicago, Ch. Engr.

Ill., Marseilles—Hotel—R. C. McCloud and S. E. Thompson, Marseilles, plan. About $60,000.

Ill., Springfield—Bd. Education making plans for Douglas Grade School, 1-story, 130x191-ft., about $75,000. H. S. Magill, Leland Bldg., Supt. Helmle & Helmle, Ferguson Bldg., Arch. Noted Sept. 28.

Wis., Pewaukee—High School—Bd. Education making plans, 2-story, about $42,000. Van Ryan & DeGelleke, Caswell Blk., Milwaukee, Arch. Noted Aug. 10.

Wis., Racine—Auditorium and Armory—Armory Comn. plans, about $85,000. A. Guilbert, Arch.

Wis., Taycheedah—State Bd. Control, Madison, receiving bids Nov. 1 for administration building and 1 cottage for "Industrial Home for Women."

Iowa, Ames—Dormitory—Bd. Education, Capitol, Des Moines, receiving bids Oct. 31 for Women's Dormitory No. 3, 3-story, about $45,000. Proudfoot, Bird & Rawson, Hubbell Bldg., Des Moines, Arch.

Iowa, Beaman—Grade and High School—Bd. Education receiving bids Nov. 13. E. G. Elliott, Secy. Reimer & Herlin, Marshalltown, Arch.

Iowa, Hampton—Hotel—Banker Realty Investment Co. plans, 3-story. About $75,000.

Iowa, Mason City—Y. M. C. A. plans building. About $75,000.

Minn., Fairmont—First Church of Christ Scientist making plans for superstructure, 2-story, about $40,000. G. W. Jones, 923 Lumber Exchange Bldg., Minneapolis, Arch.

Minn., Kellogg—School—Bd. Education made plans, 2-story, about $40,000. P. I. Psalter, Supt. G. J. Hoffman & Co., Rochester, Arch.

Minn., Mankato—G. J. Hoffman & Co., Rochester, made plans for tuberculosis sanitarium. About $45,000.

Minn., Minneapolis—Gymnasium and Club House—Church of Ascension plans, 2-story. About $100,000. Bertrand & Chamberlin, Bank of Commerce Bldg., Arch.

Minn., Minneapolis—Hampshire Arms Hotel Co., 9th and 4th Ave., S., plans 10-story addition, about $475.000. J. L. Luce, Pres.

Minn., Minneapolis—Office—Minneapolis Builders' Exchange plans, 12-story, terra cotta and brick, 2nd Ave., S. About $400,000. Bertrand & Chamberlin, Bank of Commerce Bldg., Arch.

Minn., Minneapolis—Hospital—University of Minnesota plans, about $1,500,000.

Minn., Minneapolis—Asbury Hospital, 9th and Elliott Ave., plans nurses' home. About $50,000.

Minn., St. Paul—Theater—S. Jacobson, Capitol Bank Bldg., receives bids about Jan. 1, 1-story, 61x135-ft. About $40,000. Noted Oct. 5.

Minn., South St. Paul—City plans Carnegie Library and Community Building, about $40,000. F. H. Elberlee, Endicott Bldg., St. Paul, Arch.

Minn., Wadena—Asbury Hospital, Minneapolis, plans nurses' home at Wadena. About $50,000.

Minn., Winona—Hotel—E. L. King, c-o Watkins Medicine Co., plans, about $100,000.

Kan., Abilene—High School—City voted $90,000 bonds. W. H. Sayler, 606 Gumbel Bldg., Kansas City, Arch. Noted Sept. 28.

Kan., El Dorado—High and Grade School—Bd. Education made plans, 2-story, 48x162-ft. About $45,000. Crowell & Van Meter, 602 Murdock Bldg., Wichita, Arch. Noted Aug. 24.

Kan., Hugoton—Court-House—Stevens County to vote Nov. 7 on $60,000 bonds.

Kan., Marysville—Hospital—Marshall County election in November to vote on $40,000 bonds. Address County Clk., Marysville.

Kan., Newton—School—Bd. Education making plans, 2-story, about $60,000. Greenbaum & Hardy, 216 Scarritt Bldg., Kansas City, Mo., Arch. Noted Aug. 10.

Kan., Sedan—Court-House—Chautauqua County to vote Nov. 7 on $50,000 bonds.

Kan., Smith Center — Court House — Smith County election Nov. 7 to vote on $80,000 bonds. Address County Clk., Smith Center.

Kan., Winfield—Hotel—J. M. Fuller, Arch., Conley Bldg., making plans, 4-story. About $100,000.

Neb., Cozal—High School—School Bd. receiving bids Nov. 3. About $40,000. R. A. Bradley & Co., Hastings, Arch.

Neb., Harvard—Bank—City making plans. About $55,000. W. C. Way, Hastings, Arch.

Neb., Hastings—School—Bd. Education voted $125,000 bonds. Noted Sept. 28.

Neb., York—Hotel—F. W. Clarke, Arch., Omaha, made plans, 5-story, rein.-con. and brick, Grant Ave., about $100,000.

N. D., Charlson—Schools—Bd. Education receiving bids Oct. 30 for 2 schools. W. H. Dunn, Clk.

N. D., Napoleon—School—Foster School Dist. No. 2, Logan County, Napoleon, receiving bids Oct. 30.

Mont., Livingston—High School—City voted $45,000 bonds. Plans being made. Noted Oct. 19.

Mont., Missoula—High School—City voted $75,000 bonds. Noted Oct. 12.

Tex., Ft. Worth—Hotel—B. F. Johnson made preliminary plans, 6-story, about $150,000. Sanguinett & Staats, Arch.

Tex., Snyder—Hospital—Surry County Comrs. plan election to vote bonds.

Okla., Ardmore—Convention Hall—City receiving bids Nov. 1 for plans, about $60,000. G. H. Bruce, City Clk. Noted July 20.

Okla., Frederick—Court House—City election Nov. 7 to vote on $110,000 bonds.

Okla., McAlester—Masonic Building Co. plans an addition. About $200,000.

Okla., Woodward—City Hall—City votes Nov. 7 on $50,000 bonds. H. Alexander, City Clk.

Colo., Denver—Denver Homeopathic College and Hospital Association making plans for improving Park Ave. Hospital.

Colo., Denver — Administrative — School Bd. plans, 5-story, Longfellow School Grounds.

Idaho, Idaho Falls—Courthouse and Jail—City votes Nov. 7 on $100,000 bonds.

Wash., Spokane—Bank—Old National Bank made plans for alterations. About $50,000. Graham, Burnham & Co., 8 East Jackson St., Chicago, Arch.

Wash., Spokane—(Press)—Hanauer Building to be improved and enlarged. About $60,000. Address F. Jones, c-o F. B. Grinnell Co., Terminal Bldg.

Ore., Enterprise—L. W. Riley soon let contract for 3-story business block, Main and West 1st St., for L. W. Riley, about $65,000. Tourtellotte & Hummel, Rothchild Bldg., Portland, Arch.

Ore., Grants Pass—Court House—County receiving bids Nov. 2. E. L. Coburn, Grants Pass, County Clk. E. E. McClaren, Merchants Exchange Bldg., Portland, Arch.

Calif., Fresno—Hospital—Fresno County receiving bids Nov. 8 for addition, about $55,000. D. M. Barnell, Fresno, County Clk. Glass & Butner, Republican Bldg., Arch. Noted Oct. 12.

Calif., Los Angeles—Local Missionary Society of Methodist Episcopal Church, 255 East 7th St., plans building. About $150,000. C. E. Sweet, Supt.

Calif., Yreka—High School—Siskiyou County votes Nov. 4 on $60,000 bonds.

N. S., Bridgewater—Hotel—F. W. Clark plans, fireproof.

Ont., Ingersoll—School—School Bd. plans, about $75,000.

Ont., London—Pub. Utilities Comn. soon lets contract 4-story building. About $75,000. Noted Sept. 28.

Bids In and Contracts Awarded

Maine, Ft. Fairfield—Hotel—Ft. Fairfield Hotel Co. let contract to ASTLE & PAGE, Caribou, about $50,000. Noted July 27.

N. H., Dixville Notch—(Official)—Hotel Dixville Notch Corporation let contract to H. P. CUMMINGS CONSTRUCTION CO., Ware, Mass.

Mass., New Bedford—(Official)—City let contract central police station to H. T. BULMAN CORPORATION, New Bedford, about $145,500. Noted Oct. 19.

Mass., Shirley—Chapel and Administration Building—Massachusetts Training Schools, 17 State House, let contract to T. P. HURLEY, Marlboro, about $76,700. Noted Sept. 21.

Mass., Worcester—St. Stephens Church Society let contract building to McDERMOTT BROS., 18 Cedar St., Worcester, about $125,000.

N. Y., East View—(Official)—Alms House Westchester County let contract 2-story, 500x800-ft., to J. P. BRENNAN & SON, 624 Madison Ave., about $594,475. Noted Sept. 14.

N. Y., Pittsford—High School—Bd. Education let contract masonry to P. G. HAUCK, Cox Bldg., about $60,000. Noted Aug. 24.

N. J., Dover—High School—Bd. Education let contract to R. W. WHITMAN & CO., 215 East Blackwell St., about $100,000. Noted Oct. 5.

Penn., Chester—F. J. Zimmerman, c-o Forest Theater, Broad and Sonsom St., Philadelphia, let contract theater, dance hall and store building to FLEISHMAN CONSTRUCTION CO., Real Estate Trust Bldg., Philadelphia. About $175,000.

Penn., Munhall—(Official)—High School—Bd. Education let contract to J. G. FULLMAN, East End Trust Bldg., Pittsburgh, about $53,337. Noted Oct. 5.

Penn., Warren—Conewango Savings and Trust Co. let contract bank, office and apartment building to WARREN CONSTRUCTION CO., Jamestown, about $50,000.

Del., Newark—Dormitory—Delaware College let contract 3- and 4-story to R. C. BALLINGER & CO., 218 North 13th St., Philadelphia.

Tenn., Memphis—Goodwyn Institute let contract to J. E. HOLLINGSWORTH & CO., $109,585. Noted Oct. 5.

Ky., Louisville—School—Baptist Women's Missionary Union Training School let contract, Preston St. and Broadway, to A. STRUCK CO. About $150,000.

Ohio, Sandusky—Bell Telephone Co. let contract building, Columbus Ave., to E. G. WALSH & BROS., about $100,000.

Ohio, Wilmington—(Official)—Theater—C. L. Murphy, 6157 Sheridan Rd., Chicago, let contract to A. P. EVELAND, Miamisville. About $60,000. Noted Oct. 5.

Mich., Highland Park—School—Bd. Education let contract to G. W. STILES, 209 South La Salle St., Chicago. Noted Sept. 7.

Ill., Carlyle—City Hall—City let contract to TILLMAN CONSTRUCTION CO., Centralia. Noted June 22.

Ill., Granville—(Official)—High School—Bd. Education let contract, 3-story, 75x117-ft., to WESTERN CONSTRUCTION CO., Iowa City, Iowa. About $41,153. Noted Oct. 5.

Wis., Chilton—Masonic Temple—F. & M. A. let contract to IMMEL CONSTRUCTION CO., Fond du Lac. A. C. Koch, Wells Bldg., Milwaukee, Arch.

Wis., Oshkosh—School—State Normal School let contract addition to J. O. CULLEN CONSTRUCTION CO., Janesville, about $118,450. Noted Oct. 5.

Minn., Winona — Hospital — Winona General Hospital Association let contract to FARNUM BROS. CO., Plymouth Bldg., Minneapolis, about $60,000. Noted Sept. 28.

Kan., Ottawa—High School—Bd. Education let contract, 3-story, brick, stone and rein.-con., to J. W. PRINCE, Parsons. About $98,900. Noted Sept. 28.

S. D., Clear Lake—(Official)—Court House—Deuel County let contract to A. M. WOLD CONSTRUCTION CO., Brookings. Noted Oct. 5.

N. D., Mayville—High School—Special School Dist. let contract to NORTHERN CONSTRUCTION CO., Grand Forks. Noted Sept. 14.

Mo., Carthage—Schools—Bd. Education let contract 2 ward schools to J. P. McNEMEY and J. LOGAN & CO., Carthage, about $40,000 each. Noted Sept. 14.

Mo., Jefferson City—Central Hotel let contract 4-story addition to LAUZ BROS., 118 Jefferson St., Jefferson City.

Mo., St. Joseph—Empire Trust Co. received low bid for 3-story, rein.-con. building at 8th and Francis St. from Lawson-Stamey Construction Co., 212 North 7th St. About $50,000. Noted Sept. 14.

Calif., Alameda—Bd. Education let contract 1st unit Lincoln School to CARNAHAN & MULFORD, San Francisco, about $65,900.

Calif., Sacramento—Carnegie Library—City Comn. let contract to KNOWLES & MATHEWSON, Call Bldg., San Francisco, $75,000. Noted Sept. 28.

Alta., Calgary—Armory—Dominion Government let contract to CREELMAN & CO., Calgary, about $283,000.

BARGE CANAL, ALBANY, N. Y.

Contract 19-A

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal Work, Contract 19-A, redredging Contract 19, from (A) Great Lakes Dredge and Dock Co., Buffalo; (B) Eastover Construction Co., Utica; (C) H. S. Kerbaugh, Inc., Buffalo. The item bids were as follows:

	A	B	C
308,700 cu.yd. excavation	$0.48	$0.50	$0.34
4,200 cu.yd. forming embankment	.18	.20	.10
1,830 cu.yd. lining	1.75	1.75	1.75
19.7 M ft. b.m. sawed lumber (yellow pine)	60.00	60.00	55.00
7,600 lin.ft. foundation piles	.40	.40	.40
3,380 sq.ft. steel sheet piling	1.25	1.25	1.25
7.5 M ft. b.m. sheeting and bracing	50.00	40.00	47.00
490 cu.yd. second-class concrete	8.00	8.50	8.00
20,800 cu.yd. fourth-class rip-rap	2.00	1.75	1.85
63,100 lb. structural steel	.055	.07	.06
11,000 lb. metal for repairs to New Home bridge	.12	.12	.12
340 lb. metal reinforcement	.05	.05	.06
4,330 lin.ft. wooden fence	.30	.30	.34
2,070 cu.yd. cinder filling	1.00	1.00	1.00
Pumping, bailing and draining (lump sum)	600.00	600.00	600.00
Placing bridge on new abutments (lump sum)	500.00	500.00	500.00
Maintaining foot traffic (lump sum)	300.00	300.00	300.00
Extended totals	$216,053	$218,227	$169,759

Terminal Contract No. 19

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal Work, Terminal Contract No. 19, dredging, constructing new bulkhead wall and pier and repairing 2 existing piers and a bulkhead at Greenpoint, Brooklyn, from (A) Mason, Hilton & Co., New York; (B) Riverside Contracting Co., New York; (C) E. Brown Baker, Herkimer; Phoenix Construction Co., New York, $250,610. The item bids of the 3 lowest bidders were as follows:

	A	B	C
Clearing (lump sum)	$200.00	$300.00	$200.00
Removing old material (lump sum)	4,000.00	5,000.00	4,000.00
77,600 cu.yd. excavation	.34	.39	.45
6,400 cu.yd. forming embankment	.10	.11	.12
750 cu.yd. stone filling	1.00	1.00	1.40
2,350 lin.ft. round timber	.30	.30	.315
88,400 lin.ft. foundation and bracing piles	.35	.40	.39
300 fender piles	18.00	16.00	17.50
550 M ft. b.m. sawed lumber	76.00	73.00	69.00
648 lin.ft. half round oak fenders	.25	.26	.42
200 cu.yd. second-class concrete	7.00	9.75	9.50
400 cu.yd. third-class concrete	6.00	7.25	8.00
2,300 cu.yd. first-class reinforced concrete	18.00	17.00	19.00
2,850 lb. rigid metal conduit	.06	.09¼	.10
21,200 lb. steel castings	.07	.07½	.07
34,000 lb. iron castings—plain	.04	.05	.05
463,220 lb. metal reinforcement	.05	.055	.055
212,100 lb. structural steel	.06	.065	.065
13 spools	100.00	110.00	100.00
280 pile shoes	1.00	1.10	1.00
6,000 cu.yd. rip rap	.85	.90	1.20
1,400 sq.yd. stone block pavement	2.50	3.30	3.50
500 lin.ft. concrete edging	.50	.60	.60
1,000 sq.yd. relaying stone block pavement	.55	.75	.95
1,200 sq.yd. asphalt pavement	1.10	1.30	1.45
Extended totals	$207,383	$219,216	$227,829

Terminal Contract No. 26

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal Work, Terminal Contract No. 26, constructing a pier and dredging a terminal basin in Lake Champlain, Rouses Point, from (A) J. E. Bryant Co., Cohoes; (B) A. A. Parker, Waterford; (C) E. Brown Baker, Herkimer; Great Lakes Dredge and Dock Co., Albany, $59,900; New York State Dredging Corporation, Rochester, $62,654. The item bids of the 3 lowest bidders were as follows:

	A	B	C
Clearing (lump sum)	$25.00	$25.00	$25.00
40,000 cu.yd. excavation	.35	.32	.48
24,400 cu.yd. forming embankment	.05	.05	.05
70,000 lin.ft. round timber in cribs	.29	.30	.25
21,500 sq.ft. slab sheeting	.02	.02	.02
3,800 cu.yd. stone filling in cribs	1.70	2.60	2.25
1,720 lin.ft. fender piles	.30	.40	.40
920 cu.yd. second-class concrete	7.30	8.00	7.25
780 lb. structural steel	.10	.07	.05
22 lb. ties for crib anchorage	82.50	70.00	60.00
4,100 lb. iron castings	.04	.04	.04
460 lin.ft. malleable c.-i. nosing	1.35	1.40	1.40
860 cu.yd. second-class rip-rap	2.10	3.25	2.75
785 cu.yd. broken stone	1.50	1.20	1.00
Extended totals	$55,678	$59,542	$59,600

CATSKILL AQUEDUCT, NEW YORK, N. Y.

Contract 174

Bids were received by Board of Water Supply, Sept. 5, for Contract 174 for riser-valve controlling mechanisms in shafts of City Tunnel of Catskill Aqueduct from (A) Charles Meads & Co., 38 Park Row; (B) Lupfer & Remick, Buffalo; (C) L. K. Comstock & Co., 30 Church St. The item bids were as follows:

	A	B	C
31 riser-valve controlling mechanisms	$570.00	$720.00	$770.00
31 pumps	80.00	100.00	80.00
12,000 lb. copper, bronze and brass pipe and pipe fittings	.89	1.00	1.05
300 lb. miscellaneous bronze and brass fittings	2.40	1.00	1.25
20,000 lb. miscellaneous iron and steel	.20	.15	.50
30,000 lb. galvanizing	.06	.04	.08
1,000 lb. lead	.20	.12	.20
22 riser-valve rod jacks	195.00	160.00	160.00
400 man-days, modifying existing metal and concrete work (skilled labor)	7.00	7.50	8.00
300 man-days, modifying existing metal and concrete work (unskilled labor)	5.00	5.50	5.00
Extended totals	$46,140	$50,210	$60,145

Terminal Contract No. 53

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal Work, Terminal Contract No. 53, constructing dockwall along Dead Creek and Ohio Basin, dredge basin and construct bridge across Dead Crek at Ohio St., Buffalo, from (A) Walsh Construction Co., Davenport, Iowa; (B) Larkin & Sangster, Buffalo; (C) H. S. Kerbaugh, Inc., Buffalo. The item bids of the 3 lowest bidders were as follows:

	A	B	C
Removal of existing timber docking (lump sum)	$2,200.00	$2,000.00	$2,400.00
Removal of northerly abutment (lump sum)	1,800.00	1,800.00	2,100.00
Removal and repairs to Erie freight house (lump sum)	500.00	500.00	600.00
Underpinning buildings (lump sum)	500.00	500.00	600.00
Bracing and protection of Erie R.R. Co. tracks (lump sum)	1,800.00	800.00	800.00
Cofferdams, pumping, bailing and draining (lump sum)	136,000.00	105,000.00	157,500.00
245,000 cu.yd. excavation	.32	.35	.35
10 M ft. b.m. sheeting and bracing	60.00	60.00	50.00
60,000 cu.yd. forming embankment	.10	.10	.04
700 lin.ft. foundation piles	.40	.35	.35
12 M ft. b.m. sawed lumber	60.00	55.00	55.00
62 M ft. b.m. sawed lumber, treated	70.00	70.00	70.00
60 lin.ft. wooden fence	.30	.30	.30
32,800 cu.yd. second-class concrete	6.40	7.25	6.50
1,570 cu.yd. second-class reinforced concrete	9.00	10.00	10.00
Operator's cabin (lump sum)	2,500.00	2,500.00	2,500.00
70 lin.ft. laying cast-iron pipe and specials	.60	.50	.50
5,300 lin.ft. tile and stone drains	.20	.23	.20
2,700 lb. metal duct	.12	.12	.12
340,000 lb. structural steel	.07	.066	.065
41,000 lb. iron castings, plain	.04	.048	.04
63,000 lb. machinery	.12	.14	.11
Hand-operated safety gate (lump sum)	300.00	300.00	300.00
3,600 lin.ft. malleable cast-iron nosing	1.40	1.50	1.60
49,000 lb. metal reinforcement	.05	.04	.045
660 fender fastenings	1.50	1.80	1.50
4,600 sq.ft. steel sheet piling	1.40	1.40	1.40
3,700 lin.ft. pipe railing	.60	.60	.60
20,000 lb. pig iron	.02	.02	.02
100 lin.ft. metal railing	3.25	3.00	3.00
Electrical equipment (lump sum)	6,000.00	6,000.00	6,000.00
2,500 cu.yd. broken stone or gravel surfacing	1.25	1.25	1.50
240 lin.ft. concrete curb and edging	.50	.50	.50
900 sq.ft. concrete sidewalk	.20	.20	.20
950 sq.yd. relaying stone block pavement	.60	.60	.50
212 sq.yd. wood block pavement	2.50	2.75	2.75
550 sq.yd. asphalt pavement	1.20	1.20	1.20
Plumbing (lump sum)	600.00	650.00	650.00
Maintaining navigation (lump sum)	3,000.00	3,000.00	1,000.00
Maintaining highway traffic (lump sum)	6,000.00	3,000.00	1,000.00
Deduct for Ohio st. bridge	500.00	500.00	365.00
Extended totals	$532,584	$534,615	$554,500

WHARF, HOUSTON, TEX.

Units 2 and 3

Bids were received by city Sept. 29 for constructing Units 2 and 3 of wharf from (A) Horton & Horton, Houston; (B) James Stewart & Co.; (C) William Moore. The item bids were as follows:

	A	B	C
For all work covered by Plans 1 to 7	$161,892	$172,530	$195,220
40,000 cu.yd. excavation	.35	.26	.37½
1,000 lin.ft. vertical timber piling untreated	.25	.24	.1583
1,000 lin.ft. inclined or batter piling untreated	.30	.28	.1916
30 M ft. untreated timber sheet piling 30 to 36 ft. long	55.00	50.00	37.50
20 M ft. untreated timber sheet piling 24 to 28 ft. long	40.00	44.00	35.50
10 M ft. untreated timber sheet piling 16 to 22 ft. long	40.00	43.00	34.50
1 M ft. dimension timbers for fender system and wharf logs	60.00	50.00	38.00
100 cu.yd. concrete I	6.00	6.45	5.81
200 cu.yd. concrete II	6.50	6.50	6.31
100 cu.yd. concrete III	7.00	7.60	7.02
100 cu.yd. concrete VI	7.50	6.90	7.23
40,000 lb. reinforced steel	.05	.04	.04½
5,000 sq.ft. form surface for all concrete	.10	.14	.07½
2 mooring cavels	20.00	18.00	20.00
1,000 lb. tie rods	.06	.07	.04½
50 bolt inserts with bolt comp	1.50	.50	.30
100 cu.yd. trenching	1.50	1.00	.18
100 lin.ft. 24-in. vitrified pipe	1.65	1.70	1.35
20 lin.ft. 15-in. vitrified pipe	.90	.80	.65
30 lin.ft. 8-in. vitrified pipe	.49	.60	.30
2 std, single inlets	26.00	25.00	20.00
500 lb. nails, spikes, bolts, nuts and washers	.10	.07	.05
2,000 man hours labor, skilled	.75	.85	.60
4,000 man hours labor, unskilled	.30	.32	.30
1 000 team hours	.70	.75	.60
Extended totals	$189,224	$196,255	$221,570

TRADE CATALOGS

Ferguson Synstone (Synthetic Stone) System. The Ferguson Synstone Co., Century Bldg., Denver, Colo. Catalog. Pp. 12. 10x12 in. Illustrated. Detailed exposition of a new system of concrete-block construction.

R. I. W. Cement Filler and Cement-Floor Paint. Toch Bros., 320 Fifth Ave., New York. Pamphlet. Pp. 24. 5x8 in. Illustrated.

Simplex Jacks. Templeton, Kenly & Co., Ltd., 1020 South Central Ave., Chicago, Ill. Catalog No. 216. Pp. 32. 6x9 in. Illustrated. This covers jacks for steam and electric railroads, contractors, automobiles, etc. A feature is the space devoted to uses for the pivoted-base emergency type.

Taps, Dies, Reamers, Gages, Threading Machines, Etc. Greenfield Tap and Die Corp., Greenfield, Mass. Catalog No. 37. Pp. 270. 5x7 in. Illustrated. This catalog includes the tools made by the Wells Bros. Co., the Wiley & Russell Mfg. Co. and the A. J. Smart Mfg. Co.

THE PRINCIPAL COUNTY ROAD CONTRACTS UNDER CONSTRUCTION IN TEXAS, OCTOBER 1, 1916

County	County Seat	Road, Dist. No.	Bonds Voted	Contractors	Engineers	Class of Construction	Expect to Complete
Brazos	Bryan	1	$400,000	W. D. Haden & Wm. Bates, Galveston	Abney & McCormick, Bryan	85 miles of gravel	Feb. 1, 1917
Brazos	Bryan	1		Uvalde Rock Asphalt Co., San Antonio	Abney & McCormick, Bryan	4-mile Uvalde rock asphalt macadam	Feb. 1, 1917
Brazos	Bryan	1		Kaw Paving Company, Topeka, Kansas	Abney & McCormick, Bryan	4-mile Texaco asphaltic concrete	Feb. 1, 1917
Camp	Pittsburg	1	100,000	N. B. Gregory, Texarkana (part of issue)	A. D. Stivers, Pittsburg	1-mile concrete, 19-mile gravel	April 1, 1917
De Witt	Cuero	2	50,000	W. A. Kelly, San Antonio	J. W. Benjamin, Cuero	Gravel	Feb. 1, 1917
De Witt	Cuero	3	35,000	W. A. Kelly, San Antonio	J. W. Benjamin, Cuero	Gravel	Feb. 1, 1917
El Paso	El Paso	Warrants	300,000	S. W. Portland Cement Co., El Paso	Chas. S. Henning, El Paso	15-mile concrete	Dec. 1, 1916
El Paso	El Paso	Warrants		El Paso Bitulithic Co., El Paso	Chas. S. Henning, El Paso	20-mile bitulithic	Dec. 1, 1916
El Paso	El Paso	Warrants		County doing own work	Chas. S. Henning, El Paso	15-mile Texaco asphaltic concrete (resurface)	Dec. 1, 1916
Fannin	Bonham	3	250,000	Owens Bros. Cons. Co., Bonham	Geo. McClellan, Bonham	Macadam	Oct. 1, 1916
Fannin	Bonham	4	250,000	Sublet by Dists. to various contrs.	Cavin Cock, Honey Grove	Gravel	Mar. 1, 1917
Fannin	Bonham	6	140,000	Edgar Howard, Cameron	Geo. McClellan, Bonham	Gravel	May 1, 1917
Fannin	Bonham	5	12,000	"Force Account"	C. C. Howard, Gober	Gravel	Nov. 1, 1916
Fannin	Bonham	7	80,000	Fred Moore, C. C. Baker, Helms Bros.	J. D. Carter, Leonard	Gravel	Mar. 1, 1917
Grayson	Sherman	County	900,000	Womack Cons. Co. and W. P. McCoy	Julian C. Feild & Co.	Gravel	Jan. 1, 1917
Gregg	Longview		350,000	Owens Bros. Cons. Co., Bonham	E. W. Davis, Longview	Gravel and sand clay	Mar. 1, 1917
Harris	Houston	Warrants	100,000	Eureka Paving Co., Houston	W. N. Thatcher, Houston	2-mile Texaco asphaltic concrete	Oct. 1, 1916
Harris	Houston	Warrants	175,000	Southern Paving Co., Dallas	W. N. Thatcher, Houston	3-mile Texaco asphaltic concrete	Jan. 1, 1917
Henderson	Athens	1	75,000	Cobb & Gregory, Dallas	A. B. Axtell, Athens	Sand clay	Jan. 1, 1917
Henderson	Athens	3 and 4	45,000	Smith Bros., Crockett	A. B. Axtell, Athens	Sand clay	Jan. 1, 1917
Hardin	Kountze	3	224,000	W. E. Wills, Beaumont	Myers & Noyes, Dallas	Shell	Feb. 1, 1917
Hopkins	Sulphur Springs	1	400,000	Cobb & Gregory, Dallas	J. F. Witt, Dallas	Macadam, Finley method, Texaco	June 1, 1917
Hopkins	Sulphur Springs	2	50,000	Cobb & Gregory, Dallas	J. F. Witt, Dallas	Gravel	June 1, 1917
Jefferson	Beaumont	County	190,000	Eureka Paving Co., Houston	M. J. Graham, Beaumont	4-mile Texaco sheet asphalt	Jan. 1, 1917
Jefferson	Beaumont	County		Uvalde Rock Asphalt Co., San Antonio	M. J. Graham, Beaumont	3-mile Uvalde rock asphalt	Jan. 1, 1917
Jefferson	Beaumont	County		Chaplin-Colglazier C. Co., San Antonio	M. J. Graham, Beaumont	2-mile asphalt macadam	Jan. 1, 1917
Jefferson	Beaumont	County		Haden & Bates, Galveston	M. J. Graham, Beaumont	Shell	Jan. 1, 1917
Karnes	Karnes City	3	75,000	"Force account"	Hess & Skinner, Dallas	Grading dirt	Dec. 1, 1916
Lipscomb	Lipscomb	County	75,000	J. T. Hamer, Sequin	Hess & Skinner, Dallas	Sand clay	Feb. 1, 1917
Matagorda	Bay City	1	100,000	Sublet in various small contracts	E. N. Gustafson, Bay City	Grading dirt and shell	April 1, 1917
McMullen	Tilden	County	30,000	Bexar County Cons. Co., San Antonio	Jowers, Jourdanton	Grading dirt	Nov. 1, 1916
Robertson	Franklin	4	50,000	W. C. Jucksch, Waco	Lamar Acker, Calvert	Gravel	Jan. 1, 1917
Red River	Clarksville	1	300,000	Texas Nat'l Cons. Co., Clarksville	J. R. Johnson Eng. Co.	50-mile gravel	June 1, 1917
Red River	Clarksville	2	16,000	M. C. Donivan, Clarksville	J. R. Johnson Eng. Co.	4-mile gravel	Nov. 1, 1916
Red River	Clarksville	3	43,500	R. E.-aniels, Ole Lawson, Clarksville	J. R. Johnson Eng. Co.	10-mile gravel	Nov. 1, 1916
Red River	Clarksville	4	28,000	Johnson-Coffer & McLendon	J. R. Johnson Eng. Co.	6-mile gravel	Nov. 1, 1916
Reeves	Pecos	1	100,000	W. E. Hamilton, Fort Stockton	G. B. Meriwether, Donna	22-mile gravel, --mile concrete	Nov. 1, 1916
Rockwall	Rockwall	1	25,000	Cobb & Gregory, Dallas	J. F. Witt, Dallas	Texaco 3-ply asphalt macadam	Nov. 1, 1916
San Jacinto	Cold springs	2	40,000	N. A. Dawson, San Antonio	L. S. Bryant, Cold Springs	24-mile sand clay	Jan. 1, 1917
San Patricio	Sinton	3	75,000	Southern Engr. Co., Aransas Pass	Geo. W. King, Aransas Pass	24.4-mile adobe gravel, oiled	Jan. 1, 1917
Titus	Mt. Pleasant	1	200,000	Smith Bros., Crockett	H. S. Wilder Co., Mt. Pleasant	Gravel and sand clay	May 1, 1917
Titus	Mt. Pleasant	3	75,000	Smith Bros., Crockett	H. S. Wilder Co., Mt. Pleasant	Gravel and sand clay	May 1, 1917
Titus	Mt. Pleasant	8	25,000	Smith Bros., Crockett	H. S. Wilder Co., Mt. Pleasant	Gravel and sand clay	May 1, 1917
Trinity	Groveton	Warrants	75,000	Midland Bridge Co., Houston	J. M. Walters, Houston	Sand clay	Jan. 1, 1917
Upshur	Gilmer	1	100,000	O. C. McElrath, Gilmer	Frank Mayers, Gilmer	Gravel and sand clay	Jan. 1, 1917
Upshur	Gilmer	7	75,000	O. C. McElrath, Gilmer	Frank Mayers, Gilmer	Gravel and sand clay	Jan. 1, 1917
Walker	Huntsville	Warrants	50,000	State of Texas Pen Com. (convict lbr.)	W. J. Kelly, Huntsville	Sand clay	Feb. 1, 1917

* Compiled by L. W. Kemp, Mgr. of Paving & Roads Division of The Texas Co., Houston, from data furnished by the Engineers of the respective road districts

STORM SEWERS, PLAINFIELD, N. J.

Bids were received Oct. 9 by the Common Council for storm sewers from (A) John M. Kelley Contracting Co., Camden; (B) James Ferry & Sons, Inc., Baltimore, Md.; (C) T. Foster Callahan, Elizabeth; J. H. Ferguson, Dorchester, Mass., $69,211; Lange and Saslam Co., Ridgefield, $85,120; Consolidated Engineering Co., Inc., Baltimore, Md., $71,744. The item bids of the 3 lowest bidders were as follows:

	A	B	C
520 lin.ft. 4 ft., 6 in. x 3 ft., 6 in. rectangular concrete sewer 6 to 8 ft. deep	$7.33	$8.60	$8.75
150 lin.ft. 4 ft., 6 in. x 3 ft., 6 in. rectangular concrete sewer 8 to 10 ft.	8.29	9.00	10.00
50 lin.ft. 4 ft., 6 in. x 3 ft., 6 in. rectangular concrete sewer 10 to 12 ft. deep	9.00	10.00	12.00
560 lin.ft. 45-in. circular sewer 10 to 12 ft. deep	8.07	6.70	8.25
400 lin.ft. 42-in. circular sewer 10 to 12 ft. deep	7.55	6.25	7.50
450 lin.ft. 39-in. circular sewer 8 to 10 ft. deep	6.22	5.50	6.75
740 lin.ft. 36-in. circular sewer 8 to 10 ft. deep	6.01	4.80	5.85
70 lin.ft. 36-in. circular sewer 10 to 12 ft. deep	6.50	5.50	6.29
40 lin.ft. 36-in. circular sewer 12 to 14 ft. deep	7.29	8.00	7.21
40 lin.ft. 36-in. circular sewer 14 to 16 ft. deep	8.82	10.00	9.56
90 lin.ft. 36-in. circular sewer 16 to 18 ft. deep	10.38	12.00	11.06
310 lin.ft. 33-in. circular sewer 6 to 8 ft. deep	4.78	4.00	4.58
390 lin.ft. 33-in. circular sewer 8 to 10 ft. deep	5.51	4.30	5.00
20 lin.ft. 27-in. circular sewer under 6 ft. deep	3.04	3.00	3.40
270 lin.ft. 27-in. circular sewer 10 to 12 ft. deep	4.53	3.90	5.12
1,710 lin.ft. 24-in. circular sewer under 6 ft. deep	2.12	2.50	2.80
1,200 lin.ft. 24-in. circular sewer 6 to 8 ft. deep	2.05	2.80	3.10
820 lin.ft. 22-in. circular sewer under 6 ft. deep	1.84	2.20	2.40
20 lin.ft. 22-in. circular sewer 6 to 8 ft. deep	1.98	2.50	2.70
20 lin.ft. 22-in. circular sewer 10 to 12 ft. deep	2.37	3.00	3.83
830 lin.ft. 20-in. circular sewer under 6 ft. deep	1.45	2.00	2.00
550 lin.ft. 20-in. circular sewer 6 to 8 ft. deep	1.61	2.30	2.30
380 lin.ft. 20-in. circular sewer 8 to 10 ft. deep	1.89	2.60	3.00
550 lin.ft. 18-in. circular sewer under 6 ft. deep	1.25	1.85	1.80
480 lin.ft. 18-in. circular sewer 6 to 8 ft. deep	1.43	2.10	2.10
240 lin.ft. 18-in. circular sewer 8 to 10 ft. deep	1.64	2.25	2.60
400 lin.ft. 15-in. circular sewer under 6 ft. deep	1.00	1.70	1.50
240 lin.ft. 15-in. vitrified inlet connections	1.41	1.50	1.61
3,700 lin.ft. 12-in. vitrified inlet connections	1.25	1.25	1.40
1 manhole on rectangular sewer 6 to 8 ft. deep	69.30	45.00	35.00
2 manholes on rectangular sewer 10 to 12 ft. deep	53.17	55.00	45.00
14 manholes on circular sewer under 6 ft. deep	54.84	40.00	36.00
9 manholes on circular sewer 6 to 8 ft. deep	59.45	45.00	42.00
7 manholes on circular sewer 8 to 10 ft. deep	69.66	55.00	48.00
5 manholes on circular sewer 10 to 12 ft. deep	74.93	65.00	60.00
2 manholes on circular sewer 16 to 18 ft. deep	110.34	100.00	75.00
1 special manhole East 5th and Richmond St	50.49	50.00	60.00
132 sewer inlets	33.68	40.00	40.00
1 connection with brook Park Ave	14.91	100.00	15.00
1 connection with brook Grove Ave	20.14	100.00	15.00
10 sq.yd. brick pavement	2.00	3.00	4.00
400 sq.yd. bituminous macadam	1.25	1.25	1.00
43,600 sq.yd. water-bound macadam	.65	.60	1.00
100 sq.yd. concrete for foundations	8.00	10.00	8.00
100 cu.yd. foundations of screened gravel	1.85	3.50	.75
100 cu.yd. rock excavation	2.50	2.00	4.00
10 M ft. b.m. lumber for sheeting, etc	30.00	30.00	40.00
1 M ft. b.m. lumber for platforms and foundations	50.00	50.00	55.00
1,800 lb. steel I-beams used in manholes	.06	.07	.05
Extended totals	$56,997	$59,240	$65,806

Lumber Industry—Big orders in prospect for railroad cars and extensive paving contracts specifying blocks provide some elements of prosperity for the lumber industry. Among the railroads which have recently issued inquiries and the number of cars and the approximate amount of lumber which will be required are the following: Pere Marquette R.R., 1,000 forty-ton box cars, 4,500,000 ft.; New York, Chicago & St. Louis R.R., 500 40-ton steel underframe automobile cars, 2,500,000 ft.; Chicago & Alton Ry., 200 forty-ton automobile cars, 1,000,000 ft.; Atlantic Coast Line, 50 to 100 double deck forty-ton stock cars, 250,000 to 500,000 ft.; Chicago & Alton Ry., 300 furniture cars, 2,000,000 ft. In the paving field contracts let or to be let are for over 40,000 sq.yd. in Kansas City, 75,000 yd. in New Orleans, 21,000 yd. in Ft. Dodge, Iowa, while the entire length of Battery St. in San Francisco will have Douglas fir blocks, making it the biggest stretch of wood-block paving in California. Norfolk, Va., is contemplating contracting for 36,000 sq.yd., requiring approximately 1,300,000 ft. of lumber. Smaller contracts include 7,500 yd. of Southern pine for Galveston and over 8,000 yd. of fir for Seattle.

France—The annual fair at Lyons, France, will be held from Mar. 1 to 15, 1917, inclusive. Buyers from all parts of the world will be present, and it is desired to have as large a representation of American manufactures as possible. The State Department has placed $500 at the disposal of the American Consul, which will enable him to distribute the catalogs and other literature of American manufacturers who are interested.

The Jeffrey Manufacturing Co., Columbus, Ohio, has opened an agency with the Gustin-Bacon Manufacturing Co., a large and old-established firm of Kansas City, in order to establish closer coöperation with its customers in Kansas, Missouri and Oklahoma, and improve its service there. The Gustin-Bacon Co. will carry a line of Jeffrey transmission machinery, chains, buckets, etc., in stock. J. S. Davidson, who has spent several years in the sales and engineering departments of the Jeffrey Co. has associated himself with the Gustin-Bacon Co. and will handle all inquiries for Jeffrey products.

SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until Nov. 21, 1916.

State Highway Work

OFFICE OF THE STATE COMMISSION OF HIGHWAYS

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m. on Tuesday, November 21st, 1916, for the construction of highways in the following counties:

Albany ....(one highway—3.93)
Cattaraugus..(two highways—4.04; 3.00)
Dutchess ....(one highway—7.70)
Erie ....(one highway—5.29)
Herkimer ....(one highway—0.71)
Rensselaer
(three highways—6.34; 4.95; 2.97)
Sullivan ....(one highway—4.01)
Washington ....(one highway—5.77)
Westchester ....(one highway—0.35)

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commisison in Albany, N. Y., and also at the office of the Division Engineers in whose division the roads are to be improved. The addresses of the division engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "General Information of Bidders" on the itemized proposal, specifications and contract agreement.

EDWIN DUFFEY, Commissioner.
I. J. MORRIS, Secretary.

⁂

Bids received until Dec. 1, 1916.

Collection and Disposal of Garbage

Wilkes-Barre, Pa.

Sealed Proposals will be received at the City Clerk's Office, Wilkes-Barre, Pennsylvania, until Friday, December 1st, 1916, at 12 o'clock Noon, for furnishing all labor and materials and to collect and dispose of, in a sanitary manner, all garbage and dead animals in the City of Wilkes-Barre, for and during the period of five, seven or ten years, beginning May 1, 1917, in accordance with requirements and specifications, copies of which may be had upon application. Proposals to be endorsed "Proposals for the collection and disposal of garbage and dead animals" and shall be addressed to Fred H. Gates, City Clerk, and must be made upon forms to be furnished by him, and must be accompanied by a bidding bond in the sum of $3,000.00, the successful bidder to give a Surety Company Bond in the sum of $15,000.00.

The City Council reserves the right to reject any or all bids received and to readvertise the work if deemed for the best interests of the City.

By authority of City Council.

FRED H. GATES, City Clerk.

⁂

TREASURY DEPARTMENT, U. S. Coast Guard, Washington, D. C., October 12, 1916.—Sealed proposals will be received at this office until 2 o'clock P.M. of Monday, December 4, 1916, and then publicly opened, for constructing a Coast Guard Station, and accessories, on the Siuslaw River, Oregon. Specifications and drawings, form of proposal, etc., and full information can be obtained upon application to the Superintendent, Thirteenth District, Coast Guard, San Francisco, Calif., or to this office. **E. P. BERTHOLF,** Captain Commandant.

Bids received until Nov. 4, 1916.

Road Work

Atlantic City, N. J.

The Board of Chosen Freeholders of Atlantic County, N. J., will receive bids at Eleven o'Clock A.M. during a meeting to be held in Memorial Hall, New York Avenue, Atlantic City, N. J., November 4th, 1916, for extraordinary repairs to any number or all of the following roads, or to the three as a whole:

1—White Horse Pike from Absecon to Hammonton.
2—White Horse Pike from Hammonton to the Camden County Line.
3—Ocean Highway from Absecon to Sea View Golf Club.

Plans and specifications may be seen at the office of the Engineer for Atlantic County, N. J., Guarantee Trust Building, Atlantic City, N. J., where they may be obtained in return for a deposit of $10.00 for each set. Such deposit will be refunded if plans and specifications are returned by noon of November 6th, 1916. Bids must be made out on bidding blanks incorporated in the specifications.

The total work involved in the three roads is approximately as follows: Embankment, 8,736 cubic yards; Warrenite Pavement and Base Course, 287,475 square yards; Graveled Shoulders, 22,572 cubic yards; Gravel "C" for foundations, 14,853 cubic yards; Concrete Gutters, 5,366 square yards; Wooden Guard Rail, 20,500 lineal feet; together with quantity of Concrete Headers, Drainage Provisions, Catch Basins and other incidental items.

A certified check to the amount of $1,000 will be required with each bid and a contractor will be required to furnish a bond in the full amount of the contract price, which must guarantee maintenance for a period of five (5) years.

If the contract is awarded it will be conditioned upon the sale and delivery of bonds by Atlantic County for payment of the work under the contract, and a contract will not be executed and delivered to a contractor until said bonds have been issued, sold and delivered.

The right is reserved to reject any or all bids.

A. H. NELSON,
Engineer for Atlantic County.
DOMINIC CORSIGLIA,
Chairman of Road Committee.

⁂

OFFICE, COMMISSIONERS, District of Columbia, Washington, October 3, 1916.—Sealed proposals will be received at the office of the Secretary of the Board of Commissioners, Room 509, District Building, until 2 o'clock P.M., November 2nd, 1916, for constructing a seven-span steel plate girder highway bridge, abutments, piers and approaches, on Benning Road crossing the tracks of the Philadelphia, Baltimore & Washington Railroad Company and the Baltimore & Ohio Railroad Company. Forms of proposals, specifications and all necessary information may be obtained from Chief Clerk, Engineer Department, Room 427, District Building, Washington, D. C. OLIVER P. NEWMAN, LOUIS BROWNLOW, CHARLES W. KUTZ, Commissioners, D. C.

PROPOSALS FOR DREDGING—U. S. Engineer Office, Philadelphia, Pa.—Sealed proposals will be received here until 12 noon, November 9, 1916, and then opened, for dredging in Delaware River, on Deep Water Point, New Castle and Reedy Island lighthouse ranges. Further information on application.

Bids received until Nov. 15, 1916.

Water-Works Reservoir

Aurora, Ill.

Sealed bids for the construction of a reinforced-concrete covered reservoir with appurtenances will be received by the City of Aurora, Illinois, until 10 A.M., November 15, 1916. Each bid must be accompanied by certified check for Five Hundred Dollars ($500.00), and the envelope must be plainly marked "Bid for Reservoir" and must be addressed to President, Board of Public Works, City Hall, Aurora, Illinois.

The work includes approximately 1,460 cubic yards of excavation, 800 cubic yards of concrete, 135,000 pounds of reinforcing steel, 6,200 pounds of structural steel, and a few minor appurtenances.

Plans and Specifications may be examined at the office of the Superintendent of the Water Department in the City Hall at Aurora, or at the office of Dabney H. Maury, Consulting Engineer, 1137 Monadnock Block, Chicago; or copies will be furnished to intending bidders on receipt of a deposit of $10.00, which deposit will be returned to the parties furnishing same upon the return in good order of the Plans and Specifications.

The City reserves the right to reject any or all bids.

CHAS. S. KILBOURNE,
President, Board of Public Works,
Aurora, Illinois.

⁂

Bids received until Nov. 6, 1916.

Bridge Approaches

Tulsa, Okla.

Sealed proposals will be received by the Board of County Commissioners of Tulsa County, Oklahoma, on Monday, November 6th, 1916, until 10 o'clock A.M., in the County Court House, for the construction of approaches to the Arkansas River Bridge No. 150.

Maps, plans, specifications and estimates may be seen at the office of the County Engineer at the Court House in Tulsa, Oklahoma. No bids will be received unless accompanied by a certified check for the sum of Ten (10) per cent. of the bid, and made payable to the Board of County Comissioners of Tulsa County, Oklahoma.

The successful bidder will be required to give bond for the faithful completion of the work. The Board of County Commissioners reserve the right to reject any and all bids.

By order of the Board of County Commissioners, this 2nd day of October, 1916.

LEWIS CLINE, County Clerk.

⁂

U. S. ENGINEER OFFICE, First District, New York City, Room 710 Army Building, October 25, 1916.—Sealed proposals for Dredging in Hudson River Channel, N. Y., will be received here until 12 M., November 24, 1916, and then opened. Further information on application.

LOCK GATES—U. S. Engineer Office, Wheeling, W. Va.—Sealed proposals will be received here until 11 a.m. (Eastern time), October 30, 1916, and then opened, for furnishing and erecting lock gates for Dam No. 22, Ohio River. Information on application.

Construction News

PRICE CHANGES AND THE BUSINESS OUTLOOK

For the fall of a Presidential year, this one seems to be without precedent. Ordinarily business drops way below normal, the stock market is down, and everybody is on edge wondering who is to be our next President. This year business is going on in unabated volume, the stock market is having one of the busiest sessions ever known, and the question of our next President seems to have no effect whatever upon the general prosperity. The stock market still continues to do a heavy volume of business and prices, while not at the high record mark of the year, are still higher, particularly in the coppers and industrials, than they were previous to Sept. 1.

Gains of over 15 millions in total reserves and in net member bank deposits, and the large increase in the amount of acceptances held by the Federal Reserve Bank are indicated by the weekly bank statement issued by the Federal Reserve Board at the close of business on Oct. 27. Gold reserves show an increase for the week of 15.7 millions; aggregate gold holdings of the system, including the amount held by the Federal Reserve agents against notes issued, are now $617,481,000, a gain of nearly $125,000,000 for the last six months, and of over $192,000,000 for the last year.

The metal market is still continuing to show strength with the possible exception of antimony, which has dropped in New York during the past six months from 39c. a pound down to 13c., all other metals showing a slight increase over a month ago, particularly tin, which has advanced 2½c. and is now selling for 42c. Babbit metal has shown a drop in the past six months of about 10c. a pound on the best grade and 5c. on the commercial. Excitement in the pig-iron trade has been running very high for the past two weeks. On every hand signs are observable of consumers trying to protect requirements over all of next year. Price advances were sharp and to some extent were induced by bids submitted by consumers. A long expected burst of activity in pig iron has now arrived. Primarily a sudden upshoot in the coke situation brought the heavy buying of pig iron to the fore, but the heavy foreign absorption of iron filling up the gaps between production and consumption was the underlying factor. Virginia furnaces have been the chief sellers during the past week, while Buffalo furnaces made a special drive on last half 1917 business, taking orders for about 100,000 tons at about $19.50 for No. 2X before discontinuing selling. Bessemer iron sold repeatedly at $26 valley and at the close of the week sellers were holding for $30 valley. Basic iron sold at $22 valley and Virginia iron at $21.50 furnace. All these advances in price of pig iron mean still further increases in price of steel. The volume of business that is now in the market is estimated at a total of more than 1,200,000 tons. Of this aggregate domestic consumers are seeking about 400,000 tons of steel in various forms for delivery early next year. Foreign shell steel negotiations account for about 600,000 tons and miscellaneous foreign and domestic business makes up the balance. Bids were opened on Oct. 26 for four battleships and 20 destroyers, in which the Fall River Shipbuilding Corporation, of Quincy, Mass., was low on the battleships, and the Bath Iron Works, of Bath, Maine, was low on the 20 torpedo-boat destroyers. Railway equipment business continue one of the best features of the market. Inquiries for over 20,000 cars are now in the market. Last week contracts for 3,756 cars and 1,500 underframes were placed. One Pennsylvania mill acepted orders for 100,000 tons of steel from carbuilders, while October car orders are expected to total about 19,000, it was indicated that November business will be even larger. Orders for 58 locomotives were placed last week, while the month's business will reach an aggregate of close to 1,500 locomotives, a record-breaking month's total, due largely to the Russian order for 1,000 engines.

Steady increases in the shortage of cars on the railroads, accompanied by a corresponding decrease in the total surpluses for the month of September, are shown in the report of the Committee on the Relations Between Railroads of the American Railway Association, which was made public about ten days ago. This indicates that the carriers are facing one of the most serious shortages in the history of railroading, and bears out the complaints which are being made by the interior and Southern States, that they are unable to get back their equipment when it is passed to the Eastern roads. The increase in car shortage is general in all classes of equipment throughout the country, and figured by classes of cars as follows:

Box car surplus	12,863	Shortage	45,879
Flat car surplus	1,687	"	3,655
Coal and gondola	5,640	"	25,512
Miscellaneous	4,811	"	7,446
Not classified	1,200	"	4,730
	26,201		87,222

That conditions will not be as serious as last winter is generally believed as a result of better coördination among the carriers. The condition last year was not foreseen in time to permit the framing of any definite rules on the handling of freight. Since that time the roads have refused to accept goods for shipment except upon permits based upon contracts with steamship companies for space. Although construction work is falling off due to the lateness of the season, there is more work under way at present than there has been for a number of years, and the outlook is very good for the spring of 1917.

IRON AND STEEL

Pig Iron—Below are the present quotations, with a comparison of a month and a year ago:

	Nov. 2, 1916	One Month Ago	One Year Ago
CINCINNATI			
No. 2 Southern foundry	$18.90	$17.40	$15.40@15.90
No. 2 Northern foundry	21 76	20.26	16.51@16 76
NEW YORK			
No. 2X Northern foundry	21.50@22.50	19.50@19.75	16.25@16.75
No. 2 plain Northern foundry	21.00@21.50	19.25@19.50	15.75@16.25
No 2 Southern foundry†	21.50@22.00	19 50@19.75	16.75@17.00
BIRMINGHAM			
No. 2 Southern foundry	16.00	14.50	13.00@13.50
CHICAGO			
No. 2 Northern foundry	22.00@22.50	18.50	15.25@15.50
PITTSBURGH			
Bessemer iron*	24 95	22.95	16.95
Basic iron*	20.95	19.95	15-95

*These prices include the freight charge from the valley to the Pittsburgh district. †Delivered tidewater, New York.

Sheets—Quotations are in cents per pound in various cities from warehouse, also the base quotation from mill:

	Large Lots, Pittsburgh	St. Louis	Chicago	San Francisco	New York Nov. 2, 1916	New York 1 Year Ago
Blue Annealed						
No. 10	3 15	3.55	3.50	5.00	4 25	2 25
No. 12	3 15	3.60	3.55	5 05	4.30	2.30
No. 14	3.00	3.65	3.60	5.10	4.35	2.35
Black						
Nos. 18 and 20	3.20	3.80	3.70	5.15	3.80	2.55
Nos. 22 and 24	3 25	3.75	3.75	5 24	3 85	2.60
No. 26	3.30	3.80	3.80	5.34	3.90	2.65
No. 27	3.35	3.75	3.85	5.43	3.95	2.70
No 28	3 40	4.00	3.90	5 55	4.00	2.75
Galvanized						
No. 10	3.75	4.60	4.45	5.44	...	...
No. 12	3.85	4.60	4.45	5.49	4.50	3.65
No. 14	3.85	4.60	4.45	5.49	4.50	3.65
Nos. 18 and 20	4.15	4 60	4.65	5.75	4.90	3.90
Nos. 22 and 24	4.30	5.40	4.80	5.93	5.30	4.05
No. 26	4.45	5 40	4.95	6.08	5.45	4.20
No. 27	4 60	5.40	5.10	6.22	5.35	4.40
No. 28	4.75	5.40	5.25	6.37	5.75	4.50

Chain—Quotations below are per 100 lb.:

	New York Nov. 2, 1916	New York One Year Ago	Chicago	St. Louis	San Francisco
$\frac{3}{16}$	$10.10	$7.50	$9.90	$12.50	$13 50
¼	7.55	4.95	7 35	9.00	9.75
$\frac{5}{16}$	6.55	3.95	6.35	7.50	8.50
⅜	6.00	3.40	5.80	6.75	7.75
$\frac{7}{16}$	5.80	3.20	5.65	6.65	7.75
½ and $\frac{9}{16}$	5.60	3.00	5.50	6.50	7.50
⅝ and $\frac{11}{16}$	5.50	2.90	5.40	6.40	7 50
¾ and $\frac{13}{16}$	5.40	2.80	5.30	6.25	7 25
⅞ and $\frac{15}{16}$	5.30	2.70	5.20	6.15	7 10
1 to 1¼	5 20	2.60	5.10	6.00	7.00

EXTRAS TO ABOVE LIST PER 100 LB.

	For BB	For BBB
$\frac{3}{16}$ in. and ¼ in.	$1.50	$2.00
$\frac{5}{16}$ in. and larger	1.25	1.75

Pipe—The following discounts are for carload lots f.o.b. Pittsburgh:

Butt Weld

Steel Inches	Steel Black	Steel Galvanized	Iron Inches	Iron Black	Iron Galvanized
¾ to 3	69%	55½%	¾ to 1½	59%	43%
Lap Weld					
2	63%	50½%	1¼	46%	31%
2½ to 6	66%	53¼%	1½	52%	38%
7 to 12	63%	49½%	2	53%	39%
13 and 14	63½%	....	2½ to 4	55%	42%
15	51%	....	4½ to 6	55%	42%
			7 to 12	54%	41%
Butt Weld, Extra Strong Plain Ends					
¾ to 1½	67%	54½%	¾ to 1½	60%	45%
2 to 3	68%	55½%			
Lap Weld, Extra Strong Plain Ends					
2	61%	49½%	1¼	48%	33%
2¼ to 4	64%	52½%	1½	53%	39%
4½ to 6	63%	51½%	2	55%	42%
7 to 8	59%	45½%	2¼ to 4	57%	45%
9 to 12	54%	40½%	4½ to 6	56%	44%
			7 to 8	50%	38%
			9 to 12	45%	33%

From warehouses at the places named the following discounts hold for steel pipe:

	Black New York	Black Chicago	Black St. Louis
¾ to 3 in. butt welded	63%	64 8%	64.64%
3½ to 6 in. lap welded	59%	61.8%	61.64%
7 to 12 in. lap welded	53%	58.8%	58.64%

	Galvanized New York	Galvanized Chicago	Galvanized St. Louis
¾ to 3 in. butt welded	47%	50.8%	50 14%
3½ to 6 in. lap welded	41%	48.8%	48.14%
7 to 12 in. lap welded	29%	44.8%	44.14%

Malleable fittings, Class B and C, from New York stock, sell at 30 and 5% from list price. Cast iron, standard size, 55%.

Freight Rates—On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

Baltimore	15.40	Minneapolis	32.90
Boston	18.90	New Orleans	30.70
Buffalo	11.60	New York	16.90
Chicago	18 90	Pacific Coast (all rail)	65.00
Cincinnati	15.80	Philadelphia	15 90
Cleveland	10.50	St. Louis	23.60
Denver	68.60	St. Paul	32 90
Kansas City	43.60		

Triangle Mesh—Price per 100 sq.ft. for 4 in-mesh in carload lots:

		Plain				Galvanized		
Style No.	Cross-Sec. Area per Ft. Width	New York	St. Louis	Chicago	San Francisco	New York	St. Louis	San Francisco
4	0.102	$1.53	$1.58	$1.61	$2 22	$1.74	$1 80	$2.43
5	0.077	1.21	1.25	1.27	1.76	1.38	1.42	1.93
6	0.058	.96	.99	1.01	1.39	1.09	1.13	1 52
7	0.041	.75	.77	.79	1.08	.85	.88	1.18
23	0.170	2.56	2.65	2.70	3 72	2.92	3.01	4.08
24	0.142	2.20	2.29	2.32	3.20	2.51	2.60	3.51
25	0.124	1.95	2.03	2.05	2.84	2 23	2.30	3 11
26	0.110	1.76	1.85	1.87	2.59	2.03	2.10	2.84
27	0.085	1.46	1.51	1.54	2 11	1.66	1.72	2.31
28	0.066	1.21	1.25	1.27	1.55	1.38	1.42	1.72
29	0.049	.99	1.04	1.04	1.45	1.13	1.18	1 59
31	0.261	3.76	3.91	3.96	5.48	4.29	4.44	6.01
32	0.225	3.27	3.39	3.44	4.75	3.73	3.85	5.21
33	0.196	2.91	3.02	3.06	4.24	3.32	3.43	4 65
34	0.140	2.24	2.32	2.36	3.25	2.55	2.64	3 56
35	0.109	1.78	1.85	1.87	2 59	2.03	2.10	2.84
36	0.075	1.31	1.37	1.38	1.91	1.50	1.55	2.09
38	0.380	5.36	5.57	5.65	7.80	6.12	6.32	8 55
39	0.325	4.62	4.80	4.87	6.72	5.27	5.45	7 37
40	0.283	4.05	4.20	4.27	5 89	4.62	4.77	6.46
41	0.208	3.13	3.21	3.25	4 49	3.52	3.65	4.92
42	0.151	2.34	2.44	2.46	3.41	2.67	2.77	3.74
43	0.101	1.67	1.73	1.76	2 42	1.90	1.97	2.65

Less than carload lots this material is about 10% higher.

Rivets—The following quotations are per 100 lb.:

	Mill, Pittsburgh		Warehouse			
	Nov. 2, 1916	3 Months Ago	New York	Chicago	St. Louis	San Francisco
	Structural					
¾ in. and larger.....	$4.00	$4.00	$5.25	$4.25	$4.30	$5.40
	Cone Head Boiler					
¾ in. and larger.....	4.10	4.10	5.35	4.35	4.40	5.50
⅝ and 11/16...........	4.25	4.25	5 50	4.50	4.55	5.65
½ and 9/16...........	4.60	4.60	5.85	4.85	4.90	6.00

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

Expanded Metal Lath—Prices per 100 yd. for painted are as follows to contractors:

		Carload				
		New York				
Gage	Weight	Nov. 2, 1916	6 Months Ago	Chicago	St. Louis	San Francisco
27	233	$18.00	$16.00	$15.59	$18 00	$16.00
26	250	19.00	17.00	16.50	19.00	18 25
25	300	20.00	18.00	18.50	....	19.75
24	340	21.00	19 00	19.50	21.00	21.00
22	450	24.00	22.00	22.00	....	24.50

About 10% additional for smaller quantities. For galvanized, New York, add $8, and $5 for toncan; and San Francisco, add $9 for galvanized and $3 50 for toncan.

Steel Sheet Piling—The following price is base per 100 lb. f.o.b. Pittsburgh, with a comparison of a month and a year ago:

Nov. 2, 1916	One Month Ago	One Year Ago
$2.60@2.70	$2.50	$1.55@1.60

Track Supplies—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	Mill, Pittsburgh				
	Nov. 2, 1916	One Year Ago	Chicago	St. Lcuis	San Francisco
Standard railroad spikes...	$2 65	$2.00	$3.25	$3.30	$4.20
Track bolts	3.25	2.10@2.25	5.25	Premium	4.90
Standard section angle bars	2.00	1.50@1.75	3.50	Premium	4.00

Nails—The following quotations are per keg from warehouse:

	New York				
	Nov. 2, 1916	Three Months Ago	St. Louis	Chicago	San Francisco
Wire	$3.15	$3.15	$3.15	$3.05	$3.65
Cut	3.15	3.15	3.20	3.20	3.30

Structural Material—The following are the base prices f.o.b. mill, Pittsburgh, together with the quotations per 100 lb. from warehouses at the places named:

	Pittsburgh	St. Louis	New York	Chicago	San Francisco
Beams, 3 to 15 in.............	$2 70	$3.30	$3.35	$3 25	$4 25
Channels, 3 to 15 in...........	2.70	3.30	3.35	3.25	4.25
Angles, 3 to 6 in., ¼ in. thick..	2.70	3.30	3.35	3.25	4.25
Tees, 3 in. and larger..........	2.70	3.30	3.40	3.30	4.25
Plates	3.25	3.80	4.00	3.75	4.75

Extras on other shapes and sizes in cents per lb. are as follows:

I-beams over 15 in.	.10
Angles over 6 in., on one or both legs	.10
Angles, 3 in. on one or both legs less than ¼ in. thick	.70
Cutting to lengths, under 3 ft. to 2 ft inclusive	.25
Cutting to lengths, under 2 ft. to 1 ft. inclusive	.50
Cutting to lengths, under 1 ft.	1.55

Bars, Concrete Reinforcing—The following quotations are per 100 lb.:

		Warehouse				
		New York				
In.	Mill Shipment	Nov. 2, 1916	One Month Ago	St. Louis	Chicago	San Francisco
¾ and larger...	$2.60	$3 35	$3.35	$3.24	$3.25	$4.00
⅝	2.65	3.45	3.45	3.29	3.30	4 10
½	2.70	3 50	3.50	3.34	3.40	4.20
⅜	2.85	3.75	3.75	3.49	3.50	4.50
¼	3 10	4.10	4.10	3.74	3.75	5.00

Twisted bars, 10c. extra. Cutting, 2 ft. and over, 15c. per 100 lb. extra.

Steel Rails—The following quotations are per 100 lb. f.o.b. Pittsburgh and Chicago for carloau or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh	Chicago
Standard bessemer rails	$33.00	$33 00
Standard openhearth rails	35.00	35.00
Light rails, 8 to 10 lb.	50.00	43.00
Light rails, 12 to 14 lb.	49.00	42.00
Light rails, 25 to 45 lb	47.00	40.00

Old Material—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis and vicinity, the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges:

	New York	
	Nov. 2, 1916	One Month Ago
Heavy melting steel scrap	$12.25@12.50	$11.75@12.00
No. 1 railroad wrought	20 25@20.50	19.75@20.00
Stove plate	12.00@12.50	11.50@12.00
No. 1 machinery cast	17.00@17.50	15.75@16 00
Machine shop turnings	6 25@ 6 50	5.00@ 5.25
Cast borings	8.00@ 8.25	7.00@ 7.50
Railroad malleable cast	12.00@12.50	12.00@12.50

	Chicago	
	Nov. 2, 1916	One Month Ago
No. 1 railroad wrought	$18 00@18.50	$16.50@17.00
Stove plate	10.75@11.25	9 75@10.25
No. 1 machinery cast	14.75@15.25	12.25@12.75
Machine shop turnings	6 00@ 6 50	5.50@ 6.00
Cast borings	7.25@ 7.75	6.50@ 7.00
Railroad malleable cast	13.50@14 00	11.50@12.00

	St. Louis	
	Nov. 2, 1916	One Month Ago
Heavy melting steel scrap	$18.50@19.00*	$17.50@18.00
No. 1 railroad wrought	18.25@18.75†	18.00@18 50
Stove plate	11.50@12.00†	10.75@11.00
No. 1 machinery cast	13.25@13.75†	13.00@13.50
Machine shop turnings	6.00@ 6.25†	7.25@ 7.50
Cast borings	6.25@ 6.50†	8.25@ 8.50
Railroad malleable cast	13.00@13.50†	12.75@13.00

*Gross ton. †Per net ton.

Wire Rope—Discounts from list price on bright and galvanized are as follows:

	New York				
	Nov. 2, 1916	Six Months Ago	St. Louis	Chicago	San Francisco
Galvanized	20-2½%	35-2½%	20-2½%	25-2½%	20%
Bright	30-2½%	35-2½%	30-2½%	30-2½%	30%

At this rate the net prices in New York for galvanized, 7 wires to strand, are as follows per 100 lb.:

Diameter, In.		Diameter, In.	
½	$4.40	1¼	$18 30
⅝	5.90	1⅜	20.80
¾	6 60	1½	25.60
⅞	9.50	1⅝	27.80
1	11.00	1¾	32.20

Cast-Iron Pipe—The following are prices per net ton for carload lots:

	New York	Birmingham	Chicago	St. Louis	San Francisco
4 in.	$34.50	$29.00	$34.50	$35.00	$40.00
6 in. and over...	31.50	26.00	31.50	32 00	37.00

Gas pipe and 16-ft. lengths are $1 per ton extra.

CEMENT, BRICK AND STONE

Paving Stone—

New York	Manhattan	$2.40 sq yd.
	Other boroughs	2.20 sq yd.
Chicago	About 4x8x4 dressed	2.15 sq yd.
	About 4x8x4 common	1.75 sq.yd.
San Francisco	Basalt block 4x7x8	57.50 per M

Flagging—

New York	Bronx	$0 17 sq.ft.
	Manhattan	.17 sq.ft.
	Queens ....5 ft. square	.18 sq.ft.
Chicago	18 in. wide	.60 lin.ft.

Crushed Stone—Price for cargo or carload lots is as follows:

	1½ In.	¾ In.
New York	$0.90	$1.00
Chicago	.95	.95
St. Louis	1.00	1.00
San Francisco	1.00	1.00

Sand and Gravel—Price for cargo or carload lots is as follows:

	Gravel			
	Paving	1½ In.	¾ In.	Sand
New York	$1.25	$1.00	$1 10	$0.50 per cu.yd.
Chicago	1.25	1 00	1.00	bank .75 per cu.yd.
St. Louis	....	.70	.70	.60 per cu.yd.
San Francisco	....	1.00	1.00	1.00 per cu.yd.

Brick—The price per 1,000 in cargo or carload lots is as follows:

	Common		Paving	
	Nov. 2, 1916	Six Months Ago	Brick	Block
New York	$7.75	$8.50	$19.50	$26.50
Chicago	6.00	6.25	15.00	23.00
St. Louis, salmon	7 00	6.00	....	....
St. Louis, selected red	10.00	....	....	17.50
San Francisco	10.00	9.00	....	35 00

Curbing—Prices per linear foot are as follows:

New York	5x16	$0.40
	5x20	.45
Chicago	6x18	.45
St. Louis	5x16	.68
San Francisco	5x16	.75
	5x20	.85

Portland Cement—These prices are for barrels in carload lots exclusive of bags:

	Nov. 2, 1916	One Month Ago	One Year Ago
New York	$1.77	$1.72	$1.62
Jersey City	1.60	1 60	1.56
Boston	1.92	1 92	1.77
Chicago	1.86	1.86	1 66
Pitttsburgh	1.81	1.81	1.76
Cleveland	1.94	1.94	1.80
Detroit	1.95	1.95	1.75
Indianapolis	1 99	1.99	1.79
Toledo	1.99	1.99	1.79
Milwaukee	1.98	1.98	1.83
Minneapolis	2.13	2.13	1.93
Duluth	2.06	2.06	1.91
Peoria	1 98	1.98	1.74
Cedar Rapids	2.09	2.09	1.85
Davenport	2.04	2 04	1 75
St. Louis	1.85	1.85	....
San Francisco	2.30	2 30	....

MISCELLANEOUS

Sewer Pipe—The following prices are in cents per foot for carload lots:

	New York				
Size, In.	Nov. 2, 1916	One Year Ago	St. Louis	Chicago	San Francisco
3	.0725	.05	......	.0625	.06
4	.0725	.05	......	.0625	.08
5	.12	.08	......	.10	.10
6	.12	.08	.0825	.10	.12
8	.165	.11	.135	.1375	.18
10	.24	.16	.18	.20	.27
12	.30	.20	.245	.25	.3375
15	.405	.27	.35	.3375	......
18	.57	.38	525	.475	.675
20	.675	.45	.70	.5625	.875
22	.90	.60	.84	.75	$1.05
24	.975	.65	$1.00	.8125	1.25
27	$1.665	$1.35	1.30	....	......
30	2.035	1.65	1.70	....	......
33	2 625	2.20	2.25	....	......
36	2.94	2.45	2.50	....	......

Clay Drain Tile—The following prices are per 1,000 lin.ft.:

	New York				
Size, In.	Nov. 2, 1916	Six Months Ago	St. Louis	Chicago	San Francisco
3	$23.00	$22.50	$16.00	$15.00	$24.50
4	32.45	32.50	18.00	18.00	31.50
5	45 00	47.50	25.00	23.00	45.50
6	56.55	57.50	35.00	27 00	63.00
8	98.50	97.50	65.00	55.00	105.00

Asphaltum—Price per ton in packages:

	Brand	
New York	Mexican	$19.50
Chicago	Mexican	22.00
San Francisco	California	11 50

Railway Ties—For fair-size orders, the following prices per tie hold:

	Material	7 In. by 9 In. by 8 ft. 6 In.	6 In. by 8 In. by 8 Ft.
New York	Yellow Pine	$1.07	$0.92
St. Louis	No. 1 White Oak	.72	.61
Chicago	....	.95	.85
San Francisco	Douglas Fir	.78	.53
San Francisco	Creosoted	1.39	.96

Poles—Price of Western red cedar poles is as follows:

	New York	Chicago	Denver	St. Louis
6 in. by 30 ft	$4.77	$4.07	$3.41	$4.07
7 in. by 30 ft.	5.90	5.10	4.30	5.10
7 in. by 45 ft.	7.85	6 85	5.90	6 85
8 in. by 35 ft.	9.75	8.50	7.30	8.50
7 in. by 40 ft	9.95	8.65	7.40	8.65
8 in. by 40 ft.	11.25	9.65	8.15	9.65
*8 in by 45 ft.	14.45	12.45	10.55	12.45
*8 in. by 50 ft.	16.85	14.45	12.15	12.45

*10c. higher freight rates on account of double loads.

Hollow Tile—Hollow building tile price per block in cents:

	New York				
	Nov. 2, 1916	Six Months Ago	Chicago	St. Louis	San Francisco
4x12x12 in.	.075	.0625	.064	.054	.07
6x12x12 in.	.104	.0875	.092	.066	.095
8x12x12 in.	.1266	.106	.108	.09	.12
10x12x12 in.	.149	.125	.127	.15	.18
12x12x12 in.	.1875	.156	.146	.18	.20

Fireproof partition blocks price per block in cents:

3x12x12 in.	.054	.042	.044	.036	.065
2x12x12 in.	.054	.042	.043	.024	.055
4x12x12 in.	.061	.047	.047	.048	.07
6x12x12 in.	.081	.063	.064	.066	.095
8x12x12 in.	108	....	.087	.085	.12

Above prices are for carload lots or more.

Flue Lining—The following quotations are in cents per foot for carload lots at the places named:

	New York				
	Nov. 2, 1916	Six Months Ago	Chicago	St. Louis	San Francisco
4½x 8½ in.	10.80	9.10	12.00	11.00	12.00
4½x13 in.	14.40	11.70	16 00	15.00	18.00
8½x 8½ in.	14 40	12.60	16.00	14 00	16.00
8½x13 in.	21.60	16.90	20.00	18.00	22.00
8½x18 in.	31.40	23.40	32.00	28 00	30.00
13 x18 in.	27.60	31.20	42 00	40.00	40.00
18 x18 in.	54.00	52.00	55.00	60.00	....

Wood Block Paving—

Chicago	4 in. block 16 lb. treatment	$2.05 sq yd.
St. Louis	4 in. block 16 lb. treatment	1.46 sq.yd

Lumber—Price per M in carload lots:

Square Edge and Sound Green

Timbers—Rough.—Chicago:

	20 Ft and Under	22-24 Ft.	26 Ft.	28 Ft.	30 Ft.	32 Ft.
3x 4 to 8x 8	$24.00	$26.00	$27.00	$27.00	$28.00	$28 00
3x10 to 10x10	26.00	28.00	27 50	28 00	29.00	29.00
3x12 to 12x12	28.50	29.50	30.50	30.50	31.50	31.50
3x14 to 6x14	30.50	31.50	32 50	32.50	33.50	33.50
7x14 to 14x14	30.50	31.50	32.50	32.50	33.50	33 50
3x16 to 6x16	32.50	33.50	35.50	35.50	37.50	37.50
7x16 to 16x16	32.50	33.50	35.50	35.50	37.50	37 50
3x18 to 18x18	35.50	36.50	38.50	38 50	40.50	40.50
8x18 to 18x18	35.50	36.50	38.50	38.50	40.50	40.50
4x20 to 20x20	38.50	39.50	40 50	41.50	43.50	43.50

Southern Pine—New York:

3x 4 to 8x 8	27.00	28.00	29.00	29.00	30.00	30 00
3x10 to 10x10	28.00	29.00	30.00	30.00	31.00	31 00
3x12 to 12x12	32.50	33.50	34.50	34.50	35.50	35 50
3x14 to 6x14	34.50	35.50	36.50	36 50	37.50	37.50
7x14 to 14x14	34.50	35.50	36.50	36.50	37.50	37.50
3x16 to 6x16	36.50	37.50	39 50	39.50	41.50	41.50
7x16 to 16x16	36.50	37.50	39.50	39.50	41.50	41.50
3x18 to 18x18	39 50	40.50	42.50	42.50	44 50	44.50
8x18 to 18x18	39.50	40.50	42.50	42.50	44.50	44.50
4x20 to 20x20	42.50	43.50	45.50	45.50	47.50	47.50

Yellow Pine—St. Louis:

	20 Ft.	22 and 24 Ft.	26 Ft.	28 Ft.	30 Ft.	32 Ft.
3x 4 to 8x 8	$21.00	$22.00	$23.00	$24.00	$25.00	$26.00
3x10 to 10x10	22.00	23.00	24.00	25.00	26.00	27 00
3x12 to 12x12	23.50	24 50	25.50	26.50	27.50	28.50
3x14 to 6x14	25.00	26.00	27 00	28 00	29.00	30.00
7x14 to 14x14	25.00	26.00	27.00	28.00	29.00	30.00
3x16 to 6x16	27.00	28.00	29.00	30.00	31.00	32.00
7x16 to 16x16	27.00	28.00	29.00	30.00	31 00	32 00
3x18 to 18x18	29.00	30.00	31.00	32.00	33.00	34.00
8x18 to 18x18	29.00	30.00	31.00	32.00	33.00	34.00
4x20 to 20x20	33.00	34.00	35 00	36.00	37.00	38.00

Over 32 ft—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12x12 and under; for sizes over 12x12 add $[illegible]. For merchantable add $2 to sizes 10x10 and under. For prime add $2 to the price of merchantable for all sizes.

Rough Douglas Fir, No 1 Common—More than carload lots in San Francisco—ship's tackle:

Size in Inches	15 Ft. and Under	16 to 24 Ft.	25 to 32 Ft.
3 and 4x4	$15.00	$16.50	$17.50
3 and 4x6 and 8	15.00	15.50	16.50
6x6 to 8x8	15.50	16.50	16.50
3 and 4x10	15.00	16.50	17.50
6 and 8x10	16 00	17.00	17.00
10x10	16 00	16 00	18.00
3 and 4x12	15.00	16.50	17.50
6 and 8x12	16.50	17.50	17.50
10 and 12x12	16.00	16.00	18.00
3 and 4x14	16.00	18.00	19.00
6 and 8x14	17.50	18.50	18.50
7 and 9x14	18.50	19 50	19.50
10 and 12x14	17 00	17 00	19.00
14x14	16.00	16.00	18.00
3 and 4x16	17.00	19.50	20.50
6 and 8x16	19.00	20.00	20.00
7 and 9x16	20.00	21.00	21.00
10 and 12x16	18.00	18.00	20.00
14 and 16x16	16 00	16.00	18.00
3 and 4x18	18.00	21 00	23.00
6 and 8x18	19.50	22.00	22.00
7 and 9x18	20.50	23.00	23.00
10 and 12x18	19.00	19.00	21.00
14 and 16x18	17.00	17.00	19.00
18x18	18.00	18.00	20.00
3 and 4x20	20.00	22 50	24.50
6 and 8x20	21.50	24 00	24.00
10 and 12x20	20.00	20.00	22.00
14 and 16x20	18.00	18.00	20.00
18 and 20x20	19.00	19.00	21.00

MISCELLANEOUS METALS

Miscellaneous Metals—The present quotations in cents per pound with a comparison of practically a month and a year ago are as follows:

	New York		
	Nov 2, 1916	One Month Ago	One Year Ago
Copper, electrolytic (carload lots)	29.00	28.50	18.25
Tin	42.00	39.50	36.75
Lead	7.00	7.00	5.00
Spelter	11 00	9.00	14.00
ST. LOUIS			
Lead	7.00	7.00	5.00
Spelter	11.00	9.00	14 00

Old Metals—The following are the dealers' purchasing prices in cents per pound:

	New York			
	Nov. 2, 1916	One Month Ago	One Year Ago	Cleveland
Copper, heavy and crucible	24.75	21.75	15.00	25.00
Copper, heavy and wire	24.00	20.75	14.75	24.50
Copper, light and bottoms	20.50	17 50	13 00	21.50
Lead, heavy	6.10	5.00	3 75	6.25
Lead, tea	5 50	4.50	3.50	4.75
Brass, heavy	13.75	12.50	10.00	14.50
Brass, light	10.75	10.00	8.25	11.75
No. 1 yellow road brass turnings	14 50	13.75	10.75	14.25
Zinc	6.50	6 25	8.00	7.25

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

New York—Buffalo & Williamsville Electric Ry., Williamsville, petitioned by residents of Akron to extend line from Williamsville to Akron. L. L. Grove, Williamsville, Gen. Mgr.

New York—Erie R.R. (Susquehanna Division), plans to improve lines in Hornell. About $75,000. R. S. Parsons, 50 Church St., New York, Ch. Engr.

Virginia—Norfolk, Washington & Yorktown Railroad Co. plans line from Hampton Roads via Yorktown, Va., to connect with Richmond, Fredericksburg & Potomac Ry., about 85 or 90 mi. Address H. Wolcott, Atty., Norfolk.

Virginia—Roanoke Railway and Electric Co., Roanoke, plans extension to Viscoe Silk Mill. J. W. Hancock, Roanoke, Gen. Mgr.

South Carolina—Charleston & Summerville Interurban Railway Co. plans line from Charleston to Summerville, S. C., about 22 mi. J. L. David, Pres.

Mississippi—Biloxia Vegetable and Fruit Growers' Association plans line from Biloxi to Ocean Springs, 8 mi. W. A. Reno, Biloxi, Pres.

Tennessee—Nashville, Chattanooga & St. Louis Ry. plans extension from Alton Park line to Flintstone, Ga., about 5 mi. H. McDonough, Nashville, Ch. Engr.

Michigan—Michigan Ry., Kalamazoo, plans to relay its track on South Washington St. from tracks of Grand Trunk Ry. to Ridge St. J. F. Collins, Jackson, Gen. Mgr.

Ohio—Bd. of Commerce of Lorain plans electric railway to connect residential and business districts with new industrial center on East Side. C. M. Osborne, City Engr.

Ohio—Dover, Millersburg & Western Ry. plans line from Dover to Millersburg. D. F. A. Wheelock, Woodward Bldg., Warren, Penn., Engr.

Ohio—Ohio R.R., Dayton, applied to Pub. Utilities Comn. for permission to issue $10,000 bonds for improvements. H. Gebhart, Dayton, Gen. Mgr.

Indiana—Pennsylvania Lines West of Pittsburgh plans line from Vandalia to Panhandle, 50 mi., also extension of New Cumberland branch of Panhandle R.R. to mouth Racoon Creek on Ohio River. T. Rodd, Pittsburgh, Ch. Engr.

Illinois—Kankakee & Urbana Traction Co., Urbana, plans line from Paxton to Kankakee. W. J. Soffell, Urbana, Gen. Mgr.

South Dakota—Mitchell & Northwestern Ry making surveys for line from Mitchell to Highmore through Davis, Aurora, Jerauld, Buffalo, Hand and Hyde Counties, about 100 mi. E. R. Tillinghast and W. L. Bruce, Mitchell, interested. Noted Oct. 19.

Missouri—Kansas City, Ozark & Southern Ry. plans extension south from Ava to develop timber lands. E. O. Skelton, Ava., Ch. Engr.

Arkansas—Hope Lumber Co. plans 10 mi. standard-gage railway from Hope to timber lands. T. Field, Hope, Pres.

Arkansas—Railroad Com., Clarksville, plans interurban electric railway from Clarksville to Hagarville, Silex and other points.

Texas—Interstate Electric Corporation of New York has taken over electric traction lines in San Angelo and will spend about $125,000 for improvements.

Oklahoma—Atchison, Topeka & Santa Fe Ry. plans extension south from Lindsay to Ringling, about 45 mi. C. F. W. Felt, Chicago, Ch. Engr.

Idaho—Santa & Western Railway Co. incorporated with $25,000 capital stock to build 15 mi. railway from Marsh Station on line of Chicago, Milwaukee & St. Paul Ry. to Santa. F. A. Blackwell of Blackwell Lumber Co., Cœur d'Alene, interested.

Washington—Great Northern Ry. plans to electrify about 300 mi. main line from Spokane to Seattle and other mountain divisions. A. H. Hogeland, St. Paul, Minn., Ch. Engr.

Washington—Great Northern Ry. plans to improve terminal yards and build roundhouse at Leavenworth. About $150,000. A. H. Hogeland, St. Paul, Minn., Ch. Engr.

Washington—Puget Sound Traction, Light and Power Co., Seattle, granted franchise by Bd. Pub. Wks. to relay tracks on Lakeside Ave. and East Sprague St. W. B. Donaldson, Seattle, Pur. Agt.

Oregon—California & Oregon Coast R.R. sold $2,000,000 bonds for line from Wilderville to Waldo, 45 mi., which will be section of line from Grants Pass, Ore., to Crescent City, Calif. G. W. Boschke, Ch. Engr. Noted Mar. 2.

California—Pacific Electric Ry. plans to double-track and pave portion 4th St., Santa Ana. About $21,000. J. McMillan, Pacific Electric Bldg., Los Angeles, Gen. Mgr.

California—Sacramento Valley Electric R.R. plans line from Dixon to Woodland. M. Dozier, Jr., San Francisco, Gen. Mgr.

California—San Francisco-Oakland Terminal Rys., Oakland, plans line on San Pablo Ave. from Grand Canyon Park up San Pablo Canyon to new dam of Peoples Water Co., 6 mi. W. R. Alberg, Oakland, Gen. Mgr.

Ontario—Toronto Suburban Railway Co. granted permission by Ontario Railway Bd. to extend tracks from Bathurst St. east along Davenport Rd. down Poplar Plains Rd., Toronto. G. C. Boyce, West Toronto, Gen. Mgr. Noted Sept. 28.

Bids In and Contracts Awarded

Pennsylvania — Philadelphia & Westchester Traction Co. let contract grading, masonry and roadway work on lines through Upper Darby to W. J. TORRINGTON, Weightman Bldg., Philadelphia.

Virginia—Southern Ry. let contract grading for 8 additional tracks, Monroe terminal yard, Monroe, to LANGHORNE & LANGHORNE, Lynchburg.

Ohio—Pennsylvania Lines West of Pittsburgh let contract improving yard at Bradford to J. B. HALL, Indianapolis. About $1,000,000. Noted Sept. 28.

LIGHT, HEAT AND POWER

Proposed Work

Vt., Montpelier—Addison Electric Power Co. recently incorporated with capital stock of $500,000 plans power station on Leicester River.

Mass., Boston—City making plans for power plant. Wells & Dana, 29 Central St., Arch.

Conn., Winsted—Winsted Gas Co. plans electric power plant on Coggins and Foskett properties.

N. Y., New York—(Bronx)—Interborough Rapid Transit Co. plans power house on 139th St. near Alexander Ave. About $40,000. George H. Pegram, Engr.

N. J., Atlantic City—Breakers Hotel making plans for 1-story, 28x30-ft. addition to boiler plant. About $5,000. Smith & Henderer, Sheen Bldg., Arch.

N. J., Woodbury—City Council plans electric light plant.

N. C., Mocksville—See item under "Water-Works."

Tenn., Memphis—Bd. City Comrs. receiving bids Nov. 14 for purchase of $1,500,000 bonds for electric-light plant. J. H. Weatherford, City Engr. Noted June 15.

Ky., Murray—City election in November to vote on bonds for electric-light plant. Noted Mar. 30.

Mich., Allegan—See item under "Water-Works."

Ohio, Lowellville—Republic Railway and Light Co., Sharon, plans extensive improvements to power station at Lowellville.

Ohio, Russellville—City receiving bids Nov. 4 for electric-light system. L. P. Hanselman, Clk.

Ill., Berwyn—City receiving bids Nov. 7 for lighting system. About $15,000. Noted July 13.

Wis., Burlington—Wisconsin Gas and Electric Light Co. plans to extend transmission line to south shore of Brown's Lake.

Wis., Wilton—Wilton Light and Power Co. making plans for hydro-electric plant.

Minn., Arlington—City plans improving electric-light plant and extending transmission lines. M. C. Meffert, Clk.

Minn., Hopkins—City votes Nov. 7 on $30,000 bonds for gas plant.

Minn., Jeffers—City making plans for electric-light system.

Kan., Altoona—City making plans for electric-lighting system and improving water system. About $22,000. Riley & Hardman, Parsons, Engr.

Kan., Independence—City Council plans election to vote on bonds for electric-light and power plant.

Kan., Viola—City Council granted franchise to Sumner Light and Power Co. to supply electricity for 20 years. Transmission line to be erected from Wellington to Viola.

Neb., Beatrice—City defeated $25,000 electric-light bonds. H. M. Garrett, Clk. Noted Sept. 28.

Neb., Dunbar—City plans electric-light plant. Wilbur W. Anness and Cliff C. West, interested.

Neb., Ft. Calhoun—City Council plans street lighting system. Transmission line to be erected from Douglas County line to Ft. Calhoun.

S. D., Clark—City Council considering franchise to install electric-light system. About $30,000.

N. D., Towner—T. K. Strand making plans for electric-light plant.

Tex., D'Hanis—City plans electric-light plant.

Tex., Thornton—Thornton Business Club considering plans for electric-light plant and ice factory.

Tex., Victoria—C. H. Kellam, San Antonio, granted franchise for gas-manufacturing plant. Noted Aug. 24.

Okla., Oklahoma—Blue Power Co. making plans for hydroelectric plant. John Martz, Seward, Neb., Mgr. and Supt.

Wash., Pe Ell—North Coast Power Co., Centralia, plans distribution system. About $15,000. B. C. Condit, Ch. Engr.

Ore., North Bend—Oregon Power Co. authorized to erect new 11,000 volt transmission line between C. A. Smith Mill and company's substation at Porter. About $18,000. F. C. Burke, Supt.

Calif., Portola—Walker Copper mine plans power plant.

Bids In and Contracts Awarded

N. H., Gorham—Tivin State Gas and Electric Co., Masonic Bldg., Dover, let contract 1-story addition to power station to J. M. SWAN & SON, St. Johnsbury, Vt.

Mass., North Andover—Brightwood Manufacturing Co. let contract boiler house to E. A. PEABODY & SON, Bay State Bldg., Lawrence.

Mass., Peabody—City let contract improving electric-light plant to MARK E. KELLEY CO., 30 Beckett St., Boston. About $40,000. Noted Mar. 9.

Penn., McKeesport—Duquesne Light Co. let contract substation to D. T. RIFFLE, Keenan Bldg., Pittsburgh.

Ohio, Akron—Northern Ohio Traction Co. let contract 1-story, 60x120-ft. substation to R. G. McKEE, 1301 Rockerfeller Bldg., Cleveland. About $20,000.

Ind., Martinsville—Home Lawn Sanitarium Co. let contract 2-story power house to C. F. DUNCAN, Martinsville.

Ill., Germantown—City let contract electric-light plant to F. MINNEO, New Baden, and CONRAD LEONARD, Germantown. Noted Oct. 12.

Ill., Joliet—City let contract substation to ADAMS CONSTRUCTION CO., 111 West Washington St., Chicago. About $35,000.

Iowa, Grinnell—Grinnell Electric & Power Co. let contract for power station to C. E. ENNIS, Toledo. About $200,000. Noted Sept. 7.

Minn., Buhl—City let contract addition to power plant and installing boilers to RICH-RALEY CO. About $31,000.

Wash., Keyport—City received low bid for power plant from Booker, Kiehler & Whipple, Central Bldg., Seattle, about $46,000.

Calif., San Francisco—City Electric Co. let contract substation on Bush St. to G. P. W. JENSEN, about $37,000. Noted Apr. 27.

BRIDGES

Proposed Work

N. J., Flemington—New York & Long Branch R.R. plans rein.-con. bridge over Manasquan River. G. O. Waterman, 143 Liberty St., New York, Secy. and Treas.

Penn., Philadelphia—Bureau of Surveys making plans for rein.-con. and steel bridges. C. Albright, City Engr.

Penn., Wilkes-Barre—(Official)—Luzerne County receiving bids Nov. 9 for bridge over tracks of Lackawanna & Valley R.R., connecting Ann Ave. and Poplar St., Plains Township. Paxson & Morgan, Second National Bank Bldg., Wilkes-Barre, Engr.

W. Va., Beckley—Raleigh County plans steel or concrete bridge, about $8,000. Address County Clk., Beckley.

W. Va., Elm Grove—Ohio County Comrs. plan rebuilding Monument Bridge.

W. Va., Logan—Logan County, Logan Dist., receiving bids Nov. 11 for bridges. J. B. Wilkenson, Jr., Logan, Deputy County Clk.

W. Va., Morgantown—State Rd. Bureau, W. Va. University, receiving bids Nov. 11 for 6 rein.-con. bridges.

W. Va., New Martinsville—Wetzel County receiving bids Nov. 11 for concrete bridge.

W. Va., New Martinsville—Wetzel County receiving bids Nov. 17 for bridges in Church, Clay, Magnolia, Grant, Center Dists. S. A. Myers, New Martinsville, County Clk.

N. C., Greenville—Comrs. Pitt County plan concrete bridges over Horse Shoe and Mill River Rds. P. F. Patton, Greenville, Superv.

Ga., Albany—Dougherty County Jury recommended new bridge over Flint River. Address County Clk., Albany.

Ga., Americus—Sumter County Comrs. receiving bids Dec. 11 for bridge across Flint River at Huguenins Ferry. Noted Aug. 24.

Ga., Rome—City voted $5,000 bonds for Silver Creek Bridge. H. T. McCray, City Engr. S. S. King, Supt. Pub. Wks. Noted Oct. 19.

Fla., Chattahoochee—Gadsden County election Dec. 5 to vote on $30,000 bonds for bridge over Appalachicola River. Address County Clk., Quincy.

Ala., Dothan—Houston County receiving bids Dec. 4 for bridge across Omussee Creek on Columbia and Gordon Rd. W. R. Koonce, Dothan, County Engr.

Miss., Jackson—Bd. Supvr. receiving bids Nov. 8 for bridge over Smith Creek on Clinton-McRaven Rd. W. W. Downing, Clk.

Ky., Mayfield—Comrs. Graves County plan to build several bridges under supervision State Highway Dept. R. W. Wiley, Frankfort, Comr.

Ky., Wickliffe—Ballard County Comrs. plan to build several bridges under supervision State Highway Dept. R. W. Wiley, Frankfort, Comr.

Ky., Whitesburg—Letcher County plans to rebuild bridge over Kentucky River at Tolson. Address County Clk., Whitesburg.

Ohio, Cleveland—City, Baltimore & Ohio Railroad Co. and officials U. S. War Dept. plan bridge over Auglaize River. R. Hoffman, City Engr. R. N. Begien, Baltimore, Ch. Engr. R.R.

Ohio, Cleveland—City receiving bids Nov. 18 for bridge work per report No. 3952. R. Hoffman, City Engr.

Ohio, Dayton—Montgomery County Comrs. receiving bids Nov. 9 for bridges on New Troy Pike and Springfield Rd., Butler Township. Walter G. Azling, Clk.

Bridges (Continued)

Ohio, Lorain—City making plans for approach to proposed bridge over Black River. C. M. Osborne, City Engr.

Ohio, Tiffin—Seneca County receiving bids Nov. 4 for Honey Creek Bridge No. 29 in Bloom Township; also No. 146 in Eden Township.

Ind., Terre Haute—Vigo County received only 1 bid for bridge in Fayette Township. Work to be readvertised.

Ind., Washington—Daviesa County receiving bids Nov. 9 for Jones Bridge; concrete bridge in Washington Township, and repairing Witmore Bridge. J. G. Clark, Washington, County Audr.

Mich., Detroit—(Official)—Eastern Washtenaw Good Rds. Dist. receives bids in January for viaduct over Huron River and tracks of Michigan Central R.R. on Whitmore Lake Rd. About $45,000. J. J. Cox, University of Michigan, Ann Arbor, Engr. Noted Sept. 28.

Ill., Dundee—City plans bridge on Main St. About $30,000 or $40,000.

Ill., McHenry—Nunda Township Highway Comrs. voted to build concrete bridge at foot of Haines Hill on McHenry-Crystal Lake Rd.

Ill., Sheridan—Northville, Mission and Serena Townships, La Salle County, plan bridge over Fox River. About $15,000. G. Farnsworth, Ottawa, Engr.

Wis., Hager—City to vote Nov. 7 on $45,000 bridge bonds.

Wis., Rice Lake—City election Nov. 7 to vote on proposition to build rein.-con. bridge over Red Cedar River on Main St. J. H. A. Brahtz, Mankato, Minn., Consult. Engr. Noted June 29.

Iowa, Des Moines—(Official)—City receiving bids Nov. 29 for bridge over Des Moines River on Grand Ave. K. Kastberg, City Engr. Noted Oct. 5.

Iowa, Rock Rapids—Lyon County soon receive bids for 16 bridges. About $70,000. Address County Clk., Rock Rapids.

Minn., Royalton—Morrison County plans new bridge over Mississippi River at Royalton. About $30,000. Address County Clk., Little Falls.

Minn., Sargent—City plans election to vote on $125,000 bridge bonds.

Minn., Two Harbors—See item under "Streets and Roads."

Kan., Ottawa—Franklin County receiving bids Nov. 6 for concrete abutments for Geiger Bridge across Hickory Creek in Peoria Township. J. F. Preshaw, Ottawa, County Clk.

Kan., Topeka—City making plans for rein.-con. bridge over Ward Creek. A. R. Young, City Engr.

Neb., Gering—Scotts Bluff County voted $65,000 bridge bonds. J. H. Ferguson, Gering, County Clk. Noted Sept. 28.

Neb., Scotts Bluff—Scotts Bluff County voted $65,000 bridge bonds. Address County Clk., Scotts Bluff. Noted Sept. 28.

Wyo., Arvada—Sheridan County receiving bids Nov. 8 for improving bridge across Powder River. J. J. Withrow, Arvada, County Clk.

Mont., Hardin—Big Horn County election Nov. 7 to vote on $57,500 bonds for bridge over Big Horn River. J. E. Graham, Hardin, County Engr.

Mont., Missoula—Missoula County plans election to vote on $20,000 bonds for bridge at Missoula and Bonner. Address County Clk., Missoula.

Mo., Warrensburg—Johnson County to let contract for bridges and culverts in December.

Tex., Llano—See item under "Streets and Roads."

Tex., Waco—City plans bridge over Waco Creek on Austin St. and 1 over Riverside Driveway on Barrons Branch. About $25,000. G. B. Gunley, City Engr.

Okla., Ada—Pontotoc County, Ada, and Pottawatomie County, Tecumseh, plans bridge over South Canadian River. About $30,000.

Okla., Bristow—City receiving bids Nov. 8 for steel bridge between Sect. 5 and 8, township 18. D. Beardsley, Chn.

Okla., Cheyenne—Roger Mills County election Nov. 7 to vote on $100,000 bridge bonds. Address County Clk., Cheyenne.

Okla., Perry—Noble County receiving bids Nov. 6 for 3 steel bridges and culverts in Billings. W. T. Faris, Perry, County Clk.

Okla., Poteau—Leflore County, Kennedy Township, election Nov. 7 to vote on proposition to build bridge over Nigger Creek.

N. Mex., Chaperito—(Official)—San Migueo County receiving bids Oct. 16 for steel bridge over Gallinas River at Chaperito. Address Clk., Las Vegas. Noted Oct. 12.

Wash., Aberdeen—See item under "Streets and Roads."

Wash., Okanogan—See item under "Streets and Roads."

Wash., Seattle—See item under "Streets and Roads."

Ore., Salem—(Official)—Coos County receiving bids Nov. 15 for bridge and viaduct over Coquille River near Myrtle Point. About $18,000. J. Weaver, Salem, Asst. Engr. Bridges. Noted June 1.

Calif., Bakersfield—Bd. Superv. Kern County receiving bids Nov. 9 for bridges on Division 10, Bakersfield-Mojave Rd. I. L. Miller, Bakersfield, Clk. Bd.

Calif., Santa Ana—Bd. Superv. receiving bids Nov. 9 for concrete bridge at Balboa Palisades.

Calif., Santa Barbara—Santa Barbara County receiving bids Nov. 6 for rein.-con. bridge on State Highway line between Stations 104 and 105. Address County Clk., Santa Barbara.

Calif., Ventura—City receiving bids Nov. 9 for rein.-con. bridge in Saticoy Township. J. B. McCloskey, City Clk.

Que., Montreal—Montreal Tramways Co. plans overhead bridge on Fortification Lane. J. E. Hutcheson, Montreal, Gen. Mgr.

Ont., Guelph—County plans rein.-con. bridge. About $35,000.

Ont., Toronto—Canadian Pacific Ry. plans bridge over ravine east of new station. A. D. MacTier, Montreal, Gen. Mgr. Eastern lines.

Ont., Toronto—City plans 700-ft. rein.-con. bridge on Dundas St., Halton County. Bowman & Connor, Toronto, Consult. Engr.

Bids In and Contracts Awarded

Mass., Lawrence—(Official)—Lawrence Bridge Comn. let contract waterproofing and protection of approximately 70,000 sq.ft. of surface of Central Bridges over Merrimack River to GOFF-WELLS CONSTRUCTION CO., Lawrence, about $14,995. Noted Oct. 12.

N. Y., Buffalo—City received low bid reconstruction, renewal and protection of viaducts on several streets of city from Strobel Steel Construction Co., Babcock St., $44,923; Elk St.-Abbott Rd. Viaduct, $333,274; Hamburg St. viaduct, $45,245. Noted Oct. 5.

N. Y., Buffalo—City received low bid bascule bridge over Buffalo River on Abbott Rd. from Great Lakes Dredge and Dock Co., $18,325. Noted Oct. 26.

N. J., Jersey City—(Official)—City let contract repairing 13th St. viaduct to OLTMER IRON WORKS, Hoboken, about $35,000. Noted Oct. 5.

N. J., Jersey City—(Official)—Hudson County received low bids steel bridge with concrete retaining wall at Woodcliffe, North Bergen, from W. J. Coughlin, $51,700; F. W. Schuriers, $61,711; C. S. Edwards Co., $61,987. Noted Oct. 5.

Penn., Pottsville—Philadelphia & Reading Ry. let contract rein.-con. bridge to EASTERN STEEL CO., Pottsville.

W. Va., Princeton—Mercer County let contract bridge over Brush Creek to VIRGINIA BRIDGE AND IRON WORKS, Roanoke, about $5,000.

Fla., Arcadia—De Soto County let contract bridge and causeway across Charlotte Harbor between towns of Charlotte Harbor and Punta Gorda to STAMM & SON, St. Petersburg, about $90,000. Noted Sept. 21.

Fla., Miami—Dade County let contract 5 concrete bridges to LUTEN BRIDGE CO., York, Penn., about $11,936.

Ky., Covington—Kenton County let contract steel highway bridge over Horse Branch on Covington and Independence Turnpike to OREGONIA BRIDGE CO., Lebanon, Ohio.

Ohio, Cincinnati—Cincinnati, Hamilton & Dayton R.R., Carew Bldg., let contract repairing bridges to VARGG CONSTRUCTION CO., Cumberland, Md., about $18,000.

Ohio, Cincinnati—Hamilton County let contract bridge on Independence Pike to OREGONIA BRIDGE CO., Lebanon, about $6,000.

Mich., Benton—City rejected bids for viaduct on Britain Ave. Noted Sept. 28.

Ill., Bloomington—University of Illinois let contract bridge to A. BIRT and J. P. McGARRY, about $7,977.

Ill., Bloomington—McLean County let contract 4 bridges in Yates Township to PORTER & McCULLY, Mackinaw, $10,690. Noted Oct. 12.

Ill., South Wilmington—City let contract 2 bridges over Mason Creek between South Wilmington and East Brooklyn, Greenfield Township, to JOLIET BRIDGE AND IRON CO., Joliet. About $8,900.

Wis., Edgerton—City let contract bridge over Saunders' Creek on Swift St. to L. ADLER, Edgerton.

Wis., Milwaukee—A. Trostel & Son, Commerce St., let contract trestle approach and scale pit to A. MONSTED CO., Pabst Bldg., about $15,000.

Iowa, Oskaloosa—Mashaska County let contract 17 bridges to H. E. WHITLOCK, Beacon. About $15,999.

Iowa, Rockwell City—City let contract bridge to IOWA BRIDGE CO., Des Moines, about $7,892.

Minn., Moorhead—Clay County let contract for 11 bridges to E. J. FENNELLY, Aitken. About $7,050.

Tex., Ft. Worth—C. T. Hodge, Ft. Worth, at $37,858, low bidder Allen Ave. Viaduct. Noted Oct. 5.

Okla., Chandler—Lincoln County Comrs. let contract bridge to ROCHESTER BRIDGE CO., and H. G. OLESON. Bids for other 3 bridges rejected. Noted July 6.

Okla., Sallisaw—Sequoyah County let contract 3 bridges to BOARDMAN CO., Oklahoma, about $6,805. Noted Sept. 28.

Okla., Stillwater—City let contract bridge across Cimarron River to CANTON BRIDGE CO., Canton, Ohio. Noted Mar. 16.

Okla., Tulsa—City let contract bridge over Broken Arrow Bridge Creek to CANTON BRIDGE CO., Canton, Ohio.

Wash., Spokane—(Official)—City let contract concrete bridge over Spokane River on Post St. to OLSON & JOHNSON, Missoula, Mont., $32,880. Noted Oct. 12.

Ore., St. Valier—City let contract rein.-con. bridge to LA CIE BOYER, LTD., St. Valier. About $8,000.

Calif., Oroville—Butte County let contract 2 steel and 1 concrete bridge to O. A. PETER, Oroville. Noted Sept. 28.

Calif., Upland—City let contract bridge on 19th St. to R. E. MILLSAN, 322 Central Bldg., Los Angeles, about $5,620.

Calif., Ventura—Ventura County let contract concrete bridge over San Satonio Creek on Ojai Ave. to WILLIAM LEDBETTER & CO., 651 Pacific Electric Bldg., Los Angeles. About $6,240. Noted Oct. 5.

Que., Montreal—City let contract bridge over aqueduct canal to F. J. JAGO CO., about $78,000. Noted Aug. 31.

Que., Savage Mills—City let contract concrete bridge to C. J. DRYDEN CO., 1215 Green Ave., Westmount. About $4,560.

Ont., Lansdowne—Township Council let contract rein.-con. bridge to JOHN DONOVAN, Lansdowne.

Ont., Maidstone Cross—Essex County Council let contract 2 concrete bridges to W. J. WYATT, Cottam.

B. C., Victoria—Canadian Northern Pacific Ry. let contract bridge Selkirk Water to MacDONALD, NETTLETON & BRUCE CO., Vancouver.

WATER-WORKS

Proposed Work

Mass., Chicopee—City voted $12,000 bonds for water mains.

Mass., Fitchburg—Comrs. of Streets plans reservoir. A. W. F. Brown, Supt.

Mass., Roxbury—(Boston post office)—City rejected bids for pumping station. New bids.

Mass., Waltham—City plans improving water system.

N. Y., Albany—State plans 2 reservoirs on upper Hudson watershed. About $7,000,000. J. N. Kilbourn, Supt.

N. Y., New York—(Manhattan)—W. Williams, Comr. Water Supply, Gas and Electricity, Room 2351, Municipal Bldg., receiving bids Nov. 6 for 12-in. steel or w.-i. water main and appurtenances on Queensboro Bridge, also for hauling and laying connecting c.-i. mains in boroughs of Manhattan and Queens.

N. Y., Plattsburgh—City votes Nov. 7 on $25,000 bonds for improving water system. F. McKeefe, Supt.

N. Y., Silver Creek—Village Trustees plan filter plant.

N. J., Carlstadt—Hackensack Water Co. plans 23-in. water main from Hackensack to Carlstadt. L. W. French, Weehawken, Supt.

N. J., Irvington—City authorized making plans for water mains. Noted June 22.

Penn., Langeloth—Langeloth Town Site Co. plans filter plant.

Penn., McKeesport—City plans water system. D. M. White, Supt.

Penn., Germantown—City to install water main in portion Scotforth Rd.

Md., Takoma Park—City soon receives bids for 4,000,000-gal. reservoir. H. Stevens, Union Trust Bldg., Washington, Engr.

W. Va., Charleston—City plans water system. About $2,288,975.

N. C., Mocksville—City soon votes on bonds for water system and electric-light plant.

N. C., Wilmington—City plans to spend $20,000 for water mains. W. E. Merritt, Supt.

Ga., Dublin—City sold $30,000 filter-plant bonds. J. A. Kelley, Chn. Water and Light Comn. Noted Sept. 14.

Ga., Lithonia—City voted $35,000 bonds for water and sewer systems. Noted Sept. 21.

Ga., Madison—City voted $25,000 water bonds. G. W. Hubbard, Supt. Noted Aug. 17.

Ala., Reform—City plans water system. About $10,000.

La., Bogalusa—City sold $228,500 bonds for water system, sewers, street paving and schools. Noted Oct. 19.

La., Crowley—City soon to let contract for well and reservoir. About $30,000. Noted Oct. 5.

La., Shreveport—City to vote on bonds Nov. 14 for water system.

Water-Works (Continued)

Miss., Coffeyville—City receiving bids Nov. 14 for water system. Noted June 20.

Tenn., Nashville—City plans municipal water system and pumping station above Stone's River. About $1,750,000.

Ky., Lancaster—City voted $250,000 bonds for extending and improving water system. R. C. Anderson, Engr. Noted Sept. 28.

Ky., Newport—City making plans for filter plant. About $40,000. James Maher, Supt.

Ky., Versailles—City voted $20,000 bonds for water system.

Ohio, Alliance—City soon receives bids for addition to filter plant. About $120,000. L. A. Tonkle, Supt. Noted Aug. 17.

Ohio, Bellefontaine—City retained W. J. Sherman Co., Toledo, Ohio, as Consult. Engr. for improving water system. Noted Sept. 14.

Ohio, Columbus—City soon votes on $30,000 bonds for filter plant. A. O'Shaughnessy, Supt. Noted Aug. 17.

Ohio, East Youngstown—Water Dept. receiving bids Nov. 10 for 2 motor-driven centrifugal pumps. B. L. Miller, Supt.

Ohio, Marion—Marion Water Co. plans to extend mains on Neil Ave. P. Kelly, Supt.

Ohio, New London—Citizens voted $56,000 water-works bonds.

Ohio, Salem—City plans 1,100,587-gal reservoir. About $18,632.

Ohio, Salem—City plans improving filter plant. About $71,500.

Mich., Allegan—City to vote Nov. 7 on $6,000 bonds for water system and electric-light plant. M. O. Grice, Supt.

Mich., Ann Arbor—City plans extending water system. About $75,000. Reginald Spokes, Supt.

Mich., Detroit—City plans 10-mi. 48-in. water mains.

Mich., Flint—City making plans for water mains. W. L. Fisher, Supt. Noted Oct. 5.

Mich., Mendon—City soon to vote on bonds for water system. Noted Oct. 26.

Mich., Otsego—City soon receives bids for improving water system. About $30,000. Noted Oct. 12.

Mich., Plymouth—Village receiving bids Nov. 6 for 2 centrifugal-pumping units, motors, starting boxes, connecting pipe, etc.

Ill., Canton—City plans to improve pumping station. J. P. Gallagher, Supt.

Ill., Chicago—City receiving bids Nov. 4 for pumping station. W. R. Moorhouse, Comr. Pub. Wks.

Ill., Fisher—Village soon receives bids for water system. J. E. Pickens, Kankakee, Engr. Noted Sept. 21.

Ill., Galesburg—City Council passed ordinance for water mains in portion Lawrence Ave. T. H. Snowball, Supt.

Ill., Kewanee—City plans to spend $4,500 for water mains, and $10,000 for sewers. E. F. Ingham, Asst. Supt.

Ill., Mt. Morris—Village plans extending water mains in Sunset addition.

Ill., Quincy—City making plans for pumping station at head of Quincy Bay. About $85,900. W. P. Bushnell, Engr.

Ill., River Forest—(Chicago post office)—City voted $7,000 bonds for water system. Karl M. Mitchell, River Forest, Supt.

Ill., Rock Island—City to install 3,000,000-gal. pump in reservoir. R. W. Sharpe, Supt.

Ill., Springfield—City soon votes on bonds for pumping station.

Ill., Waukegan—H. V. Finkelstein, Manufacturers' Terminal Co., presented commissioners with complete plans for filter plant. About $228,000. Noted June 15.

Ill., Wilmette—City Trustees plan water system, about $150,000. D. H. Maury, 1137 Monadnock Blk., Chicago, Consult. Engr.

Wis., Chilton—City to receive bids in March for water system. Noted Oct. 26.

Wis., Kenosha—City sold $90,000 water bonds. B. C. Brennan, Supt.

Iowa, Forest City—City plans voting on $15,000 bonds for reservoir and pumping station. J. O. Johnson, Supt.

Iowa, Grinnell—City to vote Nov. 15 on $10,000 water bonds. W. A. Hendry, Supt.

Iowa, Havelock—(Official)—City soon votes on bonds for water system. George Mick, Clk. Noted Sept. 28.

Iowa, West Burlington—City soon votes on bonds for water system. Noted Oct. 26.

Minn., Cambridge—City to vote on $15,000 water bonds. Noted Oct. 26.

Minn., Rochester—City made plans for water system. About $35,000. C. L. Pillsbury Co., Minneapolis, Engr. Noted Sept. 14.

Minn., St. Paul—City soon lets contract for c.-i. pipe, specials, sluice gates, gate valves and steel reinforcing high-service reservoir. About $400,000. G. O. House, Gen. Supt.

Neb., Beatrice—City defeated bonds for water system. About $25,000. J. R. C. Field, Supt.

Neb., Dunbar—City plans water system and electric-light plant.

Neb., Hastings—City soon receives bids for water mains and sewer. Noted Apr. 13.

Neb., Norfolk—City plans extending water system. J. A. Hueboxer, Supt.

Neb., Pender—City retained Grant & Fulton, 607 Security Mutual Life Bldg., Lincoln, to make plans for improving water system.

S. D., Milbank—City voted $25,000 bonds for filter plant. Noted Oct. 5.

N. D., Grand Forks—City election Nov. 7 on $25,000 bonds for filter plant. J. J. Smith, Supt. Noted Oct. 26.

Mont., Bozeman—City sold $305,000 water and sewer bonds. E. F. Rich, Supt.

Mo., Brookfield—City votes Nov. 21 on $63,000 bonds for water system. James W. Lacey, Supt.

Mo., El Dorado Springs—City voted $20,000 bonds for extending water system.

Tex., Port Arthur—City votes Nov. 7 on $180,000 bonds for water and sewer systems. D. K. Miller, Supt. Noted Oct. 12.

Tex., San Antonio—City plans reservoir. H. J. Weirhause, Supt.

Tex., Sherman—City made plans for 1,300,000-gal. reservoir at Fairview Water Station, North Sherman.

Okla., Cyril—City plans election to vote on bond issue for water system.

Okla., Frederick—City receiving bids Nov. 14 for water system. J. L. Morrow, Supt.

Okla., Lawton—City plans water system. W. W. Saper, Supt.

Okla., Morrison—City to vote Nov. 7 on $18,000 bonds for water system.

Okla., Oklahoma—City soon to let contract for 2,868 tons c.-i. pipe. J. W. Bennett, Supt.

Okla., Tulsa—City rejected bids for pumping station. New bids to be received Nov. 9. About $5,000. M. Y. McFarland, Act. Supt.

Okla., Yale—(Official)—City voted $15,000 water bonds. G. C. Dale, Pres. Bd. Trustees. Noted Oct. 19.

Colo., Granada—City to vote Nov. 7 on $25,000 water bonds.

Colo., Hudson—City to vote Nov. 7 on $10,000 bonds for water system.

Idaho, Fayette—City Council soon to vote on bonds for water system.

Idaho, Moscow—See item under "Sewers."

Ariz., Clifton—City plans water main from pumping station to Clifton. About $55,000.

Ore., Richland—City sold $15,000 water bonds. Noted Oct. 12.

Calif., Coalinga—City to vote in November on $100,000 bonds for water system. Noted Oct. 12.

Calif., Merced—Crocker-Huffman Land and Water Co. plans to spend $30,000 for 300,000-gal. steel tank and additional pumping station. H. A. Lage, Supt.

Calif., San Barbara—Water Comrs. plan 20,000,000-gal. reservoir. About $85,000. V. E. Tracey, Supt.

Calif., San Rafael—Marin County sold $3,000,000 water bonds. William Volge, San Rafael, County Audr.

Que., Levis—City to vote bylaw Mar. 1 for filter system, also concrete reservoir, 1,500,000-gal. capacity. About $15,000. Noted Oct. 26.

Que., St. Marc des Carriers—City plans water system.

Ont., Cornwall—City making plans for addition to pumping station. Bids soon to be received. About $20,000. Charles Lount, Supt.

N. B., St. John—City soon to receive bids for 3,000 ft. c.-i. pipe. About $30,000. David B. Doig, Supt.

Alta., Spirit River—Town Council plans well and pumps.

Bids In and Contracts Awarded

Mass., Braintree—City received low bid for 4-, 6- and 12-in. water pipe from A. Williams & Co., 27 Lowell St., Boston, about $9,197.

Mass., Braintree—Town received low bid for c.-i. pipe and hydrants in Union St. from A. C. Trojano. Noted Oct. 5.

N. Y., Elmira—(Official)—Water Bd. let contract electrically driven centrifugal pump, 7,500,000 gal., to ALLIS-CHALMERS MANUFACTURING CO., Milwaukee, Wis. Noted Oct. 12.

N. J., Atlantic City—(Official)—City let contract c.-i. high-pressure fire-service main to M. B. MARKLAND, Atlantic City. About $81,749. Noted Oct. 19.

N. J., Bay Head—City let contract pumping station and disposal plant to WHITING, TURNER CONSTRUCTION CO., Secton Bldg., Baltimore, Md. About $25,990.

Penn., Erie—City to lay 12-in. water main on 10th St. by day labor.

Fla., Havana—(Official)—Bd. Pub. Wks. let contract water system and electric-light plant to J. B. McCRARY CO., Atlanta, Ga. About $20,678. Noted Sept. 14.

Fla., Jacksonville—Bd. Trustees let contract pump to ALLIS CHALMERS MANUFACTURING CO., $39,960; fittings to FLORENCE MACHINE CO., c.-i. pipe to UNITED STATES CAST IRON PIPE AND FOUNDRY CO., valves to COLUMBIA IRON WORKS. Noted Sept. 14.

Tenn., Rogersville—City did not receive bids Oct. 10 for water and sewer systems as noted in Oct. 5 issue.

Ohio, Alliance—City let contract 6,000,000-gal cross-compound pumping engine to WORTHINGTON PUMP AND MACHINERY CORPORATION, Snow Works, Buffalo, about $30,440. Noted Oct. 12.

Ohio, New Boston—City let contract water system to DRAVO CONSTRUCTION CO., Diamond Bank Bldg., Pittsburgh, about $125,000.

Mich., Flint—(Official)—City let contract excavating for filter plant to F. D. FRINK, Flint. Noted Oct. 12.

Mich., Mt. Clemens—(Official)—City to improve water system by day labor. About $10,000. Noted Oct. 19.

Ill., Joliet—(Official)—Bd. Local Impvts. received low bid for water main in portion Wilcox St. from Curtis & Tyndall, Joliet. Noted Oct. 19.

Wis., Monticello—City let contract extending water mains to C. H. PHILLIPS, Waupaca.

Wis., West Allis—Bd. Pub. Wks. let contract extending water mains in 50th, 68th and 77th Ave. to H. HOHENSEE, 965 27th St., Milwaukee, at $1.29 per lin.ft. Noted Oct. 26.

Iowa, Corning—City let contract for water system to MALEY & KEELY CONSTRUCTION CO., 503 Massachusetts Bldg., Kansas City, Mo., at $23,455.

Minn., Duluth—City let contract water main to D. R. BLACK & CO. About $5,396.

Minn., Kenyon—City let contract improving water system to WILLIAM C. FRASER, St. Paul. Noted Sept. 21.

Minn., Mankato—City rejected bids for extending water mains in May St. H. F. Blomquist, Supt. Noted Aug. 10.

Minn., Minneapolis—(Official)—City received low bids for 30,000,000-gal. motor-driven centrifugal pump from R. D. Wood Co., Allis-Chalmers Co., De Laval Co. Noted Oct. 12.

Minn., St. Paul—City received bid for rotary screens for water system from St. Paul Foundry Co., St. Paul, at $6,400.

Minn., West St. Paul—City let contract water system to THORNTON BROS., St. Paul. About $37,982. Noted Oct. 5.

Kan., Argonia—City let contract water system to CONKLIN MORTGAGE CO., Wichita. About $20,000. Noted Oct. 26.

Tex., Loraine—City let contract water system to J. E. JARRETT & CO., San Antonio. Noted Aug. 21.

Tex., Miami—(Official)—City let contract water system to MULLER-PARKER ENGINEERING AND CONSTRUCTION CO., Dallas. About $8,197. Noted Sept. 7.

SEWERS

Proposed Work

N. Y., Fredonia—City plans disposal plant. About $100,000. Frank C. Moor, City Engr.

N. Y., New York—(Manhattan)—M. M. Marks, Borough Pres., Room 2032, Municipal Bldg., receiving bids Nov. 10 for sewer in 188th St. and 189th St., between Wadsworth and St. Nicholas Ave.

N. Y., New York—(Manhattan)—M. M. Marks, Borough Pres., Room 2032, Municipal Bldg., receiving bids Nov. 10 for extension sewer in 172nd St. between Ft. Washington Ave. and Broadway.

N. J., Camden—City receiving bids Nov. 20 for sewers in portion of Magnolia Ave. L. E. Farnham, City Engr.

Penn., Harrisburg—City plans disposal plant. M. B. Cowden, City Engr.

Penn., Hazleton—See item under "Streets and Roads."

Penn., Penns Station—City votes Nov. 7 on $25,000 sewer bonds.

Penn., Pittston—Council passed ordinance for sewer in Bonita Way. J. F. Langan, City Engr.

Md., Butterton—City plans sewers and disposal plant. Kastenhuber & Anderson, Dover St., Easton, Engr.

Md., Towson—City made plans for sewer system. About $66,902. Norton, Bird & Whitman 1320 Munsey Bldg., Baltimore, Engr.

W. Va., Fairmont—City votes Dec. 15 on bonds for storm and sanitary sewers. S. B. Miller, City Engr.

Ga., Lithonia—See item under "Water-Works." Noted Sept. 21.

La., Bogalusa—See item under "Water-Works." Noted Oct. 19.

Ohio, Akron—City votes Nov. 7 on $500,000 bonds for sanitary sewer in Brittain St. J. A. Gehrea, City Engr. Noted Oct. 5.

Ohio, Bellefontaine—City plans extending sewers in various streets. About $6,500. Clair E. Inskeep, City Engr.

Ohio, Cincinnati—City voted to install sewers in Queen Ave., White St. and Columbia Ave. Fred Schneller, City Clk.

Sewers (Continued)

Ohio, Cincinnati—City made plans for 8,250-ft. sewers. About $347,000. F. S. Krug, Ch. Engr.

Ohio, Elyria—City plans sewer in Middle Ave. C. N. Teobald, Engr.

Ohio, Elyria—Bd. Pub. Ser. receiving bids Nov. 6 for sewers in portion West River St. and Mussey Ave. M. M. Wilcox, Dir. Pub. Ser.

Ohio, Miamisburg—City votes Nov. 7 on $100,000 bonds for sanitary sewers.

Ohio, Newark—City passed resolution to improve sewer in portion West Main St. Charles H. Wells, City Engr.

Ohio, Piqua—Council passed resolution for storm sewer in Dist. No. 2. A. Schroeder, City Engr.

Ohio, Sidney—See item under "Streets and Roads."

Ind., Kokomo—Bd. Pub. Wks. receiving bids Nov. 16 for extending sewers in Loretta St. and Virginia Ave. Ben Haven, City Clk.

Mich., Detroit—City soon receives bids for sanitary sewer in Puritan and Wyoming Ave. About $10,000. R. A. Murdock, 508 Free Press Bldg., Detroit, Engr.

Mich., Ludington—City plans extending sewer system. George Clark, City Engr.

Mich., Redford—City defeated $100,000 sewer bonds.

Mich., Royal Oak—City making plans for sewer system. Bids to be received in spring. Mason L. Brown, 821 Chamber of Commerce Bldg., Detroit. Noted Mar. 23.

Ill., Havana—Bd. Local Impvts. plans to spend about $24,000 for sewers.

Ill., Kewanee—See item under "Water-Works."

Ill., Waukegan—City made plans for sewers. About $7,000. J. J. Dietmeyer, Comr. Pub. Wks.

Wis., Fond du Lac—City soon receives bids for sewers in Seumour, West 2nd, Emma, West Rees, West Division, Oak and South St. J. S. McCullough, City Engr.

Iowa, Boone—City soon lets contract for disposal plant. About $50,000. Robert McCormick, City Engr. Noted May 4.

Iowa, Emmetsburg—City receiving bids Nov. 6 for storm sewer.

Iowa, Fayette—City making plans sewer system. About $17,000. G. H. Bishop, City Hall, Engr.

Iowa, Knoxville—City plans sewer and sewage disposal plant. M. G. Hall, Engr.

Iowa, Rockwell City—Town Council plans disposal plant. F. E. Burnham, Town Clk.

Minn., St. Cloud—City plans to spend $18,000 for storm sewers.

Kan., Hanover—City making preliminary plans for sewer system. Black & Veatch, Inter-State Bldg., Kansas City Mo., Arch. Noted Sept. 28.

Kan., Manhattan—City soon votes on $13,000 bonds for storm sewers. F. Walters, Engr. Noted Mar. 23.

Neb., Hastings—See item under "Water-Works."

Neb., Red Cloud—City voted $20,000 sewer bonds. Bids to be received in November. Grant & Fulton, Banker's Life Bldg., Lincoln, Engr. Noted Oct. 12.

Mont., Big Timber—(Official)—City receiving bids Nov. 6 for sewer system. About $40,000. Gerharz-Jaqueth Engineering Co., First National Bank Bldg., Great Falls, Engr. Noted Oct. 19.

Mo., Sikeston—City election Nov. 14 to vote on $5,000 sewer bonds.

Tex., Kenedy—State Atty. General's Dept. approved $6,000 bond issue for sewer system.

Tex., Lockhart—City voted $35,000 sewer bonds.

Okla., Beggs—City soon votes on $18,000 sewer bonds. P. L. Brown, Pres. Bd.

Colo., Loveland—City plans sewer district on East Side.

Idaho, Nampa—City soon to vote on $15 000 sewer improvements bonds.

Idaho, Nezperce—City plans voting $30,000 bonds for sewers. Noted Sept. 14.

Ariz., Douglas—City plans storm sewer in Ave. A. About $30,000. George N. Wood, City Engr.

Wash., Seattle—Bd. Pub. Wks. plans sewers on West Halliday St. and 8th Ave. About $11,845. A. H. Dimock, City Engr.

Wash., Seattle—See item under "Streets and Roads."

Calif., Long Beach—City soon lets contract for pumps for Sewer Dist. No. 3. A. de Duiz, Engr.

Calif., San Francisco—See item under "Streets and Roads."

Bids In and Contracts Awarded

N. Y., Elmira—City let contract sewers in Erie and Morrow St. to McGREEVLY, McGREEVLY & BAUM.

N. Y., Kenmore—City let contract storm water sewers in Myron Ave. to F. J. MUMM & CO., Buffalo. About $17,000. Noted July 13.

N. Y., New York—(Bronx)—(Official)—D. Mathewson, Borough Pres., received low bids for sewers in portions Westchester Ave., from Santor Construction Co., 234 West 41st, $10,993; West 230th and 231st St., from Marrone & Bove, $11,421. Noted Oct. 19.

N. Y., Olean—City received low bids for Contract No. 2 for sewers and pumping station along Alleghany River and Olean Creek from Lord Construction Co., 105 West 40th St., New York. About $64,716.

N. J., Camden—City let contract sewer portion of Mulford St. to AARON WARD & SON, 524 Trenton Ave. Noted Oct. 12.

Penn., Bellwood—City rejected bids for sewer systems and sewage plant. H. Linton, 1717 13th St., Altoona, Engr. Noted Sept. 28.

Penn., Philadelphia—(Official)—Low bidders Contract No. 16, sewer in portion of Thompson St., (a) Design A, (b) Design B, were Keystone State Construction Co., 704-709 Pennsylvania Bldg., Philadelphia (a) $215,416, (b) $199,684; Lombardi & Perna, 600 Lincoln Bldg., Philadelphia, (a) $221,450, (b) $200,104; Adolph Jaffola, 139 S. 50th St., Philadelphia, (a) $237,095, (b) $241,945.

Penn., Wilkes-Barre—City let contract storm sewer in Kelley St. to DOMINIC GURNARI, 281 Miller St.

Tenn., Copperhill—(Official)—City let contract sewers to A. C. BROOKS, Birmingham. Noted Oct. 12.

Ky., Lexington—Bd. Comrs. let contract storm sewer to CAREY-REED CO., Lexington. About $43,089.

Ohio, Greenfield—City let contract sewer system and disposal plant to H. E. MILLER, 654 Kelton Ave. Noted May 4.

Ohio, Port Clinton—City received low bid sewers in Washington St. from C. L. Wright, Mt. Vernon. About $14,038. Noted Sept. 21.

Ohio, Sebring—City let contract 19th St. Sewer to W. W. WATSON.

Ohio, Springfield—City let contract Rose St. Sewer to P. J. GAFFREY, about $9,296.

Ohio, Springfield—City let contract sewers in Indiana, Franklin, Oakwood and Landsdown St. to M. J. COONEY. Noted Oct. 26.

Ill., Evanston—C. T. Bartlett Co., Evanston at $47,148, low bidder Greenleaf St. Sewer.

Ill., Springfield—City let contract sewer in Clear Lake Ave. to J. PATTESON. Noted June 8.

Wis., Appleton—City let contract sewer in John St. to J. H. WAITE.

Wis., Baraboo—City let contract sewer in Birch St. to S. EDWARD SCHADDE.

Iowa, Primghar—Town let contract sewer and disposal systems to SIOUX CITY CONCRETE PIPE CO. About $30,000. Noted Sept. 21.

Minn., Benson—City let contract sewer in 13th St. to EDWARD SANDMEYER.

Neb., North Platte—City let contract 6,000 ft. sewer to C. J. BURKE, Kearney.

Neb., Oxford—City let contract sewer to H. J. PETERSON, Omaha. About $10,822. Noted Oct. 12.

Tex., San Antonio—City let contract sewer in Sect. 34 to ELDER BROS., P. O. Box, 202, San Antonio. About $5,318.

Calif., Hermosa Beach—City Trustees received low bids for disposal and treatment plant from T. J. Shea, 2039 Oxford Ave., Los Angeles, $33,122; S. M. Kearns, Long Beach, $35,407; R. H. McCray, Los Angeles, $44,300. Noted Sept. 28.

GARBAGE

Proposed Work

N. Y., Syracuse—Council voted $10,000 bonds for incinerating plant. R. B. Williams, Jr., Comr. Pub. Wks. Noted Feb. 24.

Mo., St. Joseph—City granted franchise to James R. Page to collect and dispose of garbage in St. Joseph. Contractor and associates to install $130,000 plant for manufacture from garbage.

STREETS AND ROADS

Proposed Work

Maine, Augusta—State Highway Comn. rejected bids 3.7 mi. gravel road in Thomaston and South Thomaston.

Mass., Ashland—Bd. Selectmen rejected bids for gravel road in Ashland Ave.

Mass., Cambridge—City appropriated $63,000 for repaving, wood block, 9,000 sq.yd. in Cogswell Ave. and Pacific St.

Mass., Cambridge—City Council appropriated $27,500 for paving portion Massachusetts Ave. Bids soon to be received.

Mass., Springfield—City plans to widen Dwight St. F. H. Clark, City Engr.

N. Y., New York—(Brooklyn)—L. H. Pounds, Borough Pres., Room 2, Borough Hall, receiving bids Nov. 8 for improving portions Bay 19th, East 12th and 81st St., Caton, Thatford and 23d Ave., also for furnishing and delivering 1,000 cu.yd. broken trap rock and 1,000 cu.yd. trap rock screenings.

N. Y., New York—(Manhattan)—M. M. Marks, Borough Pres., Room 2032 Municipal Bldg., receiving bids Nov. 10 for improving portions 181st St.

N. Y., New York—(Manhattan)—F. J. H. Kracke, Comr. Bridges, Municipal Bldg., receiving bids Nov. 16 for improving southerly portion Manhattan Plaza of Manhattan Bridge.

N. Y., New York—(Queens)—M. E. Connolly, Borough Pres., 3d floor, Borough Hall, 5th St. and Jackson Ave., Long Island City, receiving bids Nov. 6 for improving portions various streets.

N. Y., Patachogue—Citizens voted $8,000 bonds for paving Ocean Ave.

N. Y., Silver Creek—Village plans to pave portion Burgess St.

N. J., Bordentown—City to improve 2nd St., macadam.

N. J., Flemington—Bd. Freeholders, Hunterdon County, plan new road from Clover Hill to Flemington-Lambertville macadam road.

N. J., Jersey City—City Comrs. plans improving portion Ocean Ave., wood block. A. Van Keuren, City Engr.

N. J., Kearney—Town Council plans improving Hickory St. with Warrenite. H. P. Kreimer, City Engr.

N. J., Keyport—(Official)—Bd. Freeholders, Monmouth County, receive bids about Jan. 3 for road from Keyport to Red Bank, warrenite with concrete base. About $65,000. G. D. Cooper, 120 Broad St., Red Bank, Engr. Noted Oct. 19.

N. J., Mt. Holly—Burlington County plans 9-mi. sheet asphalt in 1917. James Logan, Mt. Holly, County Engr.

N. J., Salem—Bd. Freeholders Salem County plan highway from Delaware River at Pennsgrove to Sharpstown and seashore resorts. Address Clk., Salem.

N. J., Toms River—Bd. Freeholders, Ocean County, to improve about 91 mi. roads. About $203,000. Address County Clk., Toms River.

N. J., Woodbury—Bd. Freeholders, Gloucester County, plan gravel road from Woodbury to Battlefield Park, about 2½ mi. N. C. Catell, Wenonah, Engr.

N. J., Woodbury—Bd. Freeholders, Gloucester County, plan 2-mi. concrete road from Paulsboro to Gibbstown. N. C. Catell, Wenonah, Engr.

Penn., Coatesville—(Official)—Council receiving bids Nov. 6 for 5,450-ft. macadam road with bituminous surface around shores Rock Run Reservoir. E. E. Stern, City Clk. A. Potter, Consult. Engr.

Penn., Erie—Council passed ordinance for paving portion 23d St. About $13,565. F. G. Lynch, City Engr.

Penn., Hazleton—City plans to spend about $50,000 for paving and sewers. B. A. Youngman, City Engr.

Penn., Kingston—(Wilkes-Barre post office)—Borough plans to improve number streets including Elm, Bridge, Ridge and Mott Ave. and Hoyt St.

Penn., McKeesport—City Council passed ordinance for improving portion of Irwin St.

Penn., Reading—City appropriated $100,000 for paving streets. E. Alrich, City Engr.

Va., Richmond—City plans to pave portion Chamberlayne Ave. About $75,000 available. C. E. Bolling, City Engr.

Va., Richmond—C. E. Bolling, City Engr., making plans for widening Pumphouse Dr.

W. Va., Chester—Hancock County making plans for road improvements, about $125,000. R. Hobbs, Clk., and E. C. Crafton, New Cumberland, Engr.

W. Va., Clarendon—Alexandria County Comrs. plan to spend $118,615 for roads in Washington Dist. and $171,660 in Arlington Dist., also road paralleling tracks of Washington-Virginia Ry., Mt Vernon Rd. with $20,000 State Aid, Glebe Rd., about $78,657 and Vacation Lane Rd. G. H. Rucker, Clarendon, County Clk.

W. Va., Elm Grove—Comrs. Ohio County, Wheeling, to rebuild National Rd. through Elm Grove. About $35,000 available. G. Steenrod, Wheeling, County Engr.

N. C., Burgaw—Pender County, Columbia Township, voted $25,000 road bonds. Address County Clk., Burgaw. Noted July 27.

N. C., Hamlet—City sold $50,000 street improvement bonds. J. S. Utter, City Engr. Noted Oct. 5.

N. C., Morganton—Burke County to build roads in Silver Creek, Lovelady, Leard, Upper Fork and Quaker Meadow Townships by day labor. About $100,000 available. Address County Clk., Morganton. Noted Oct. 26.

N. C., Raleigh—State Highway Comn. appropriated road funds for 1917 as follows: Person, Henderson, McDowell, Mecklenburg and Gaston Counties, $10,000; Wilkes County, $25,000; Madison County, $9,500; Rutherford County, $8,000; Catawba, Burke and Avery County, $5,000; Wilmington-Fayetteville Highway, $7,000.

N. C., Wilkesboro—Wilkes County soon receives bids for grading 250 mi. roads. About $250,000 available. R. T. Brown, Chapel Hill, and J. B. Roach, Statesville, Engr. Noted Sept. 28.

Ga., Louisville—Jefferson County voted $52,000 road bonds. Address County Clk., Louisville.

Ga., Statenville—Echols County plans road from Statenville to county line. Address County Clk., Statenville.

Ga., Valdosta—Lowndes County plans sand clay road from Valdosta to county line. Address County Clk., Valdosta.

Ga., Winder—Comrs. Barrow County plan election to vote on $65,000 road bonds. Address County Clk., Winder.

Fla., DeLand—Volusia County receiving bids Nov. 6 for improving highways in Halifax Special Rd. and Bridge Dist. Samuel D. Jordan, DeLand, County Clk. Noted Oct. 26.

Fla., Mayo—Lafayette County defeated $600,000 road bonds. Noted Sept. 28.

Streets and Roads (Continued)

Ohio, Niles—City let contract paving C St. to J. DEBUTE, about $9,000; Mill St., F. GEORGE, Leetonia, about $13,000. Noted Oct. 5.

Ohio, Norwood—City let contract paving Ridgeway Ave. to G. MURDOCK, 2531 Melrose Ave. Noted July 6.

Ohio, Osnaburg—Stark County Comrs. let contract paving Lincoln Highway to HAHN CONSTRUCTION CO., Canton. About $25,000.

Ohio, Portsmouth—City received low bid paving portion Kendall Ave. from Kelley Bros. Noted Oct. 19.

Ohio, Warren—Trumbull County let contract road Vernon Township to EVANS BROS., Hubbard, about $9,000.

Ind., Brazil—(Official)—Clay County received no bids for stone and gravel road on line between Posey and Perry Townships. Noted Oct. 12.

Ind., Brazil—(Official)—Clay and Vigo Counties received bids for county line road from M. L. Lassell, Clay City, and Campbell & Hawkins, Brazil. Noted Sept. 14.

Ind., Clinton—City Council rejected only bid for paving North Main St. W. Lemoa, City Engr.

Ind., Huntington—(Official)—Bd. Pub. Wks. received no bids for waterbound macadam pavement. Noted Oct. 12.

Ind., New Albany—(Official)—Floyd County let contract road New Albany Township to S. T. GAMES, R. R. No. 3, about $11,350. Noted Oct. 12.

Ill., Chicago—City let contract cement sidewalks to G. KEHL & SON CO.

Ill., Kankakee—City let contract paving West Ave. and Chestnut St. to F. SHIDLER, 428 South Rosewood Ave.

Ill., Peoria—City let contract paving Cole St. to D. A. MYERS, $1.62 per sq.yd.

Ill., Rock Island—Bd. Local Impvr. let contract paving portion 42nd St. to TRI-CITY CONSTRUCTION CO. Noted Oct. 12.

Ill., Sidell—(Official)—County let contract, about 11,600 sq.yd. highways, to C. TAGGART, Martinsville, about $16,063. Noted Oct. 12.

Ill., Virginia—Bd. Local Impvr. received low bids for paving North Morgan St. from John G. Pratt, Virginia. About $8,396. Noted Sept. 14.

Ill., Waukegan—Bd. Local Impvr. let contract for paving 10th St. to WAUKEGAN IMPROVEMENT CO. About $15,156. Noted Oct. 19.

Wis., Milwaukee—Bd. Pub. Wks. let contracts as follows: Paving portion Kathryn Pl. and Vliet St., bituminous concrete, to J. S. O'NEILL, 796 Astor, Milwaukee, at $5,200; Fairwell Ave., Park Pl., Stowell Ave. and Van Buren St., to F. P. COUGHLIN, at $17,500; 8th St., to GEORGE CZERWINSKI, at $7,200.

Iowa, Council Bluffs—Council rejected only bid for resurfacing Oakland Ave. Noted Oct. 12.

Iowa, Des Moines—City let contract paving 2nd and Vine St. to WAGNER PAVING CO.; resurfacing and paving 3rd St. to J. A. HORRABIN, 1422 Walnut St.

Iowa, Red Oak—Montgomery County let contract grading highway, about 22,000 cu.yd. excavation, to WILSON CO., Red Oak, about $5,600. Noted Oct. 12.

Kan., Kansas City—City Comrs. let contract paving portion Argentine Drive to H. B. FENTON & CO. Noted May 18.

Kan., Leavenworth—City received low bid paving Broadway from Watts & Ammerman, Salina, $47,990 for 10 years' maintenance and $56,990 for 15 years.

Kan., Wichita—City let contract asphaltic macadam paving on portion 10 streets to H. L. MILES, 809 Beacon Bldg., paving portions 10 streets and alleys to GLOBE CONSTRUCTION CO., 501 Winne Bldg.

Neb., Lincoln—City let contracts paving to ROBERTS CONSTRUCTION CO., Dist. No. 367, $11,595; BURKE & COCHRANE CONSTRUCTION CO., First National Bank Bldg., Dist. No. 368, $36,040, Dist. No. 369, $11,784.

Neb., Omaha—(Official)—Douglas County received bids paving 2 mi. West Center St. from H. Murphy Co., Omaha, $2.64 per sq.yd., J. A. Beebe, Omaha, $2.68 per sq.yd., E. Geiger Construction Co., Leavenworth, Kan., $3.86 per lin.ft. Noted Oct. 12.

Neb., University Place—(Lincoln post office)—City let contract paving Dist. No. 9 to ABEL CONSTRUCTION CO., Lincoln. About $2.10 per yd.

N. D., Jamestown—City let road work to STANLEY BROS., St. Cloud, Minn.

Mo., Kansas City—Bd. Pub. Wks. let contracts paving to E. F. WILCOX, Dwight Bldg., Terrace Pl., $5,510; CLEVELAND-TRINIDAD PAVING CO., 1097 Vine St., Wyandotte St., $4,467. C. Hill, City Engr.

Mo., Kansas City—Bd. Pub. Wks. let contract 1881 sq.yd. concrete paving on Agnes St. and 5,560 sq.yd. bituminous paving Wornall Rd. to C. T. BROSNAHAN.

Mo., Springfield—City let contract paving portion Harrison St. to J. J. UNDERWOOD; $1.28 per sq.ft., Lyons St. to SHERWOOD MEYERS, $1.28 per sq.ft. Noted July 13.

Ark., Dardanelle—(Official)—Bd. Impvt. let contract 135,140 sq.ft. concrete sidewalks, including gutters and crosswalks, to PHOENIX CEMENT SIDEWALK CO., 701 North 21st St., Ft. Smith. About $19,516. Noted Oct. 12.

Ark., Pine Bluff—City let contract 17,000 sq.yd. pavement to J. A. PERDUE & CO., Pine Bluff, about $15,000.

Tex., Dallas—City let contract paving Pavilion St. to TEXAS BITULITHIC CO., about $6,357.

Tex., Dallas—City let contract paving portion Gaston Ave. to TEXAS BITULITHIC CO., Dallas, about $26,728. Noted Aug. 10.

Tex., Edinburg—Hidalgo County let contract 2 roads to T. F. LOVETT, San Juan, about $147,940.

Okla., Sapulpa—Creek County let contract improving Ozark Trail Rd. to M. B. VOUCHER and D. V. LIVINGSTON.

N. M., Roswell—City let contract paving Kentucky Ave. to CLEVELAND TRINIDAD PAVING CO., Corsicana, about $27,406. Noted July 27.

Ariz., Phoenix—City let contract improving several streets to CALIFORNIA-ARIZONA CONSTRUCTION CO.

Wash., Centralia—City let contract paving Chehalis Ave. to ALBERS & SON, Centralia, about $4,782. Noted Sept. 14.

Calif., Los Angeles—Los Angeles County let contract improving Sect. "A" Nogales Highway to AUBREY INVESTMENT CO., Prescott, about $62,000.

Calif., Los Angeles—City let contract paving portion 18th St. to FORD & STOUT, Bradbury Bldg., about $5,163. Noted Oct. 26.

Calif., Los Angeles—City let contract paving 40th St. to FAIRCHILD-GILMORE-WILTON CO., Pacific Electric Bldg., about $12,435.

Calif., Los Angeles—Low bidder improving portion Bluff Pl. was Fairchild-Gilmore-Wilton Co., Pacific Electric [illegible].

Calif., Los Angeles—Los Angeles County let contract scenic highway in Beverly Hills Dist., Rd. Impvt. Dist. No. 126, to SOUTHERN CALIFORNIA CONTRACTING CO., Title Insurance Bldg., about $52,112. Noted Oct. 19.

Calif., Pasadena—City let contract paving portion Glenarm St. to J. S. MILLER, Santa Monica. Noted Oct. 26.

Calif., Richmond—City received bids improving 47th St. from G. W. Cushing, 420 Macdonald Ave., $10,151, and J. Worth, $10,238.

Calif., Rio Vista—(Official)—City let contract curbing, guttering and paving various streets to JOHNSON-SHEA CO., Oakland. Noted Oct. 12.

Calif., San Francisco—Bd. Pub. Wks. let contract paving portion Oakdale Ave. to FLINN & TRACY, First National Bank Bldg. About $25,334.

Calif., San Francisco—City let contract paving, sidewalks, curbing and sewers in portion 20th Ave. to O. McHUGH, about $27,136.

Calif., San Francisco—City let contract improving 1 block Balboa St. to O. McHUGH, 304 Russ Bldg., about $5,409.

Calif., San Luis Obispo—City let contract cement sidewalks on Morro St. to E. D. COLE CONSTRUCTION CO., about 21½c. per sq.ft. Noted June 8.

Calif., San Rafael—City let contract macadamizing West End St. to BAKER & MARTIN, Sheldon Bldg., San Francisco.

Calif., Upland—(Official)—Bids received for 46,000 sq.ft. concrete pavement with oil and screening surface on 19th St. from Pearson & Summers, $4,906; W. C. Cline, $5,038; G. Snyder Contracting Co., $5,214. Noted Oct. 12.

Ont., Hamilton—City plans to pave Fairview Ave. with asphalt by day labor. E. R. Gray, City Engr. Noted Oct. 19.

Ont., Hamilton—(Official)—City to build cement sidewalks on Elm, Strachan and Province St. by day labor. Noted Oct. 19.

INDUSTRIAL WORKS

Proposed Work

Mass., Quincy—W. I. Cornell, 109 Brookline Ave., Back Bay Dist., Boston, making plans for 2-story garage and store building. About $50,000. E. W. Campbell, 5 Park Sq., Boston, Arch.

Conn., Hartford—D. F. Cotter, 40 Beach St., making plans for 1-story. 103x200-ft. public garage. About $20,000. B. A. Sellew, 756 Main St., Arch.

Conn., Stafford Springs—Rhode Island Worsted Co., making plans for 1-story, 200x300-ft. and 1-story, 50x200-ft. mill. About $200,000. C. A. Tinker, 465 Summer Ave., Springfield, Mass., Arch.

N. Y., Canajoharie—Beechnut Packing Co., Canal St., making plans for 2-story addition. F. E. Barbour, Gen. Mgr.

N. Y., New York—(Manhattan)—(Official)—Bids are being received by O. J. Zschoche, Arch., 1280 Clay Ave., Bronx, for 2-story, 50x96-ft. brick and concrete garage for M. Nering, 639 West 131st St. About $16,000.

N. Y., New York—(Manhattan)—(Official)—Bids are being received by C. R. Comstock, Arch., 110 West 40th St., for a 3-story, 21.6x99.11-ft. brick garage at 167 East 127th St., for O. Shahl, 2322 3rd Ave. About $15,000.

N. Y., Niagara Falls—American Sales Book Co., 3,000 Highland Ave., making plans for 2-story, 30x170-ft. addition. S. Larke, Maine St., Arch.

N. J., Paterson—Paterson Industrial Development Co. of Chamber of Commerce receiving bids Nov. 15 for 4-story, 75x275-ft. factory on Gray St. About $200,000. F. W. Wentworth, 14 Market St., Arch. Noted Oct. 5.

Penn., Reading—Reading Brewing Co., 9th and Laurel St., plans 2-story addition to bottling house. About $10,000. G. T. Gerhard & Son, 619 Pennsylvania Ave., Arch.

Penn., Williamsport—National Paint Wks., care of F. P. Cheesman and Norman Elliott, 100 West William St., New York, plans warehouse. T. J. Litzelman. 129 West 4th St., Arch.

Va., Roanoke—Norfolk & Western Ry. plans 1-story upholstering shop. About $50,000. J. E. Crawford, Roanoke, Ch. Engr.

Ohio, Cincinnati—C. Boldt Glass Wks. plans 2- or 3-story bottling plant. C. Boldt, Davis Lane and Pennsylvania R.R., Pres.

Ohio, Cleveland—Ideal Wheel Co. plans addition. A. H. Akerman, Massillon, Mgr.

Ohio, Cleveland—Tabor Ice Cream Co., 3500 Payne Ave., made plans for 4-story factory, Payne Ave. and East 35th St. About $125,000. C. D. Cooley Co., Century Bldg., Pittsburgh, Arch. and Engr. Noted Mar. 2.

Ind., Frankfort—McDougall Kitchen Cabinet Co. plans new plant. Esterline & Angus, Lemcke Annex, Indianapolis, Arch. and Engr.

Mich., Port Huron—G. R. Davidson purchased plant of Richmond Elevator Co. and will remodel and enlarge.

Mich., St. Joseph—Auto Specialties Manufacturing Co., Joliet, Ill., plans 2-story, 80x400-ft. factory.

Iowa, Ft. Dodge—Ft. Dodge Culvert Co. plans factory, 7th St. and 7th Ave., M. W. About $20,000.

Minn., Minneapolis—Mueller Furnace Co., 631 3rd Ave., S., plans factory at University Ave. and 27th St., S. E. About $70,000.

Minn., Minneapolis—Joseph T. Pierson Co., Chicago, plans fabricating plant in Midway Dist. About $100,000 or $125,000.

Minn., Minneapolis—Reinhard Bros. plan 4-story manufacturing building on 9th St. About $70,000.

Minn., St. Paul—J. T. Ryerson & Son, Inc., 2558 West 16th St., Chicago, plans steel plant on Wabash Ave.

Neb., Omaha—Fairmont Creamery Co., 12th and Jones St., making plans for 2-story factory to be leased by Merrill, Soule Co., Syracuse, N. Y. About $50,000. H. Lawril, 627 Paxton Blk., Arch.

Neb., Omaha—Morris & Co. plans to rebuild plant at South Omaha destroyed by fire.

Mo., Carthage—Kaut-Reith Shoe Co. soon receives bids for addition, about $17,500. Noted Oct. 19.

Mo., Kirksville—Missouri Heat, Light and Power Co. making plans for ice storage building and addition to boiler room. About $15,000. W. H. Hendricks, Kirksville, Gen. Mgr.

Tex., Houston—Pacific Bone and Fertilizer Co. of California plans fertilizer plant at Houston. S. Peiser, Pres.

Tex., Houston—Union Compress and Warehouse Co. plans cotton shed and warehouse on McKee St.

Tex., Wichita Falls—Hines Automatic Cotton Packer Co. plans factory.

Tex., Wichita Falls—Chamber of Commerce accepted proposition from Eastern Capitalists to install cotton mill. About $375,000.

Wash., Harrington—Dunning & Erich Harvester Co. plans 4 concrete additions to plant.

Ore., Hillsboro—Carnation Mill Products Co. plans 2-story, 100x170-ft. concrete and tile addition. About $50,000.

Ont., Hamilton—Hamilton Steel Wheel Co. making plans for factory. About $200,000. Prack & Perrine, Dumsden Bldg., Toronto, Arch.

Ont., London—W. A. Jenkins Stock Feed Co. plans to rebuild factory destroyed by fire with loss of $50,000.

Ont., Toronto—Dominion Government appointed C. S. Wilcox, Pres. Steel Co. of Canada, Hamilton, chairman of committee in reference to aëroplane factory in Toronto.

B. C., Lillooet—Pacific Great Eastern Ry. making plans for rein.-con. machine shops and roundhouse. About $150,000. A. H. Sperry, Vancouver, Gen. Mgr.

B. C., New Westminster—H. Schaake, New Westminister, plans foundry and machine shop. About $50,000.

Bids In and Contracts Awarded

Mass., Fall River—Fall River Iron Works Co., Ferry St., let contract 6-story warehouse to McNALLY CONSTRUCTION CO., 84 North Main St., about $35 000. Noted Aug. 17.

R. I., Providence—Lorraine Manufacturing Co. let contract 1-story addition to mill to B. F. SMITH CO., 22 Mason St., Pawtucket, about $25,000.

Conn., Danbury—New York, New Haven & Hartford R.R. let contract roundhouse, machine shops and office building on White St. to T. J. PARDY CONSTRUCTION CO., 15 Fairfield Ave., Bridgeport about $65,000. Noted Sept. 14.

N. Y., Auburn—Dunn & McCarthy, Washington St., let contract 3-story factory to G. MOSELEY, 24 Dill St., at $25,000.

Industrial Works (Continued)

N. Y., Buffalo—Pratt & Lambert, 79 Tonawanda St., let contract 4-story factory to C. BERRICKS SONS, 1131 Main St. About $16,000.

N. Y., Buffalo—Rice & Adams let contract 3-story factory to DUROLITHIC CO., Ellicott Sq. About $75,000.

N. Y., Buffalo—Buffalo Weaving and Belting Co., 215 Chandler St., let contract warehouse to J. N. BYERS, 461 Linwood Ave. About $14 000. Noted June 8.

N. Y., Buffalo—Magnus Beck Brewing Co., 446 North Division St., let contract addition to bottling plant to M. O'MALLEY, 214 Breckenridge St., about $10,000.

N. Y., Carthage—Carthage Silk Co. let contract 2-story mill to H. I. STARKWEATHER, 16 Front St. About $20,000.

N. Y., Green Island—(Troy post office)—Miller & Canary, 42 Paine St., let contract 2-story addition to STONE BROS., 1738 Highland Ave., about $46,000.

N. Y., Jamestown—Dahlstrom Metallic Door Co., East 2nd St., let contract 2 factory buildings to S. AUSTIN & SONS CO., 14230 Euclid Ave., Cleveland. About $20,000.

N. Y., New York—(Brooklyn)—W. H. Whitney let contract 4-story factory to HENNEBIQUE CONSTRUCTION CO., 1170 Broadway, Manhattan.

N. Y., New York—(Brooklyn)—H. L. Moss and N. Ginsberg, 117 Pennsylvania Ave., to build 1-story, 103x125-ft. garage by day labor. About $25,000.

N. Y., New York — (Manhattan) — Wellesley Realty Co., 261 Broadway, let contract 5- story garage to INDUSTRIAL ENGINEERING CO., 30 Church St. About $60,000.

N. Y., New York—(Manhattan)—Arrow Construction Co., 270 Broadway, to alter and enlarge 4-story garage by day labor. About $30,000.

N. Y., Niagara Falls—National Carbon Co. let contract 1-story, 135x300-ft. factory to SNYDER-GILLETT CONTRACTING CO., Gillett Court, about $50,000. Noted Oct. 5.

N. Y., Rochester—E. Sackett, 75 Exchange St., let contract 2-story garage to CURRAN & SWARTOUT, Granite Bldg., about $35,000.

N. Y., Syracuse—Firestone Tire and Rubber Co. let contract 2-story sales building to YENNOCK & PAOLINI, 414 West Division St., about $23,000.

N. Y., Syracuse—N. B. White, Onondaga Hotel, let contract public garage to T. H. McHALE & SON, Cahill Bldg., about $40,000.

N. J., Garfield—L. Buonocore & Son, 169 Harrison Ave., let contract 3-story factory to T. BRUNO & GALLANTE, Garfield, about $81,000.

N. J., Newark—Positive Lock Washer Co., Vanderpool St. and Ave. A., let contract addition to F. McCUE, 84 Harper St.. about $10,000.

N. J., Newark—Celluloid Co., 290 Ferry St., let contract several additions to STONE & WEBSTER ENGINEERING CORPORATION, 120 Broadway, New York, about $1,000,000.

Penn., Johnstown—Harris, Boyer Co., 147 Fairfield Ave., let contract bakery to L. OVERDORFF, Johnstown, about $10,000.

Penn., Philadelphia—Willis, Jones, McEwen Co., 1511 North 26th St., let contract 3-story warehouse to G. KESSLER CONSTRUCTION CO., Drexel Bldg., about $30,000.

Penn., Philadelphia—W. Cramp & Sons Ship and Engine Building Co., Beach and Ball St., let contract enlarging plant at Bettys Island to HOFFMAN ENGINEERING AND CONTRACTING CO., Pennsylvania Bldg., about $58,000. Noted June 22.

Penn., Philadelphia—A. Sanders, Land Title Bldg., let contract garage to A. CHAMBLEY, 243 South 10th St., about $25,000.

Penn., South Brownsville—Hamburg Distillery Co., Ltd., let contract fermenting and bonding home to SMITH & SHALLENBERGER, Uniontown, about $20,000.

W. Va., Beckley—Raleigh Grocery Co. let contract cold-storage plant to J. O. FREEMAN, Beckley, about $12,000.

Ohio, Cincinnati—Cincinnati Iron and Steel Co. let contract addition to plant, Front St. and Freeman Ave., to F. FOLZ, Dayton and McLean Ave., about $28,000. Noted Oct. 5.

Ohio, Cleveland—Atlas Car and Manufacturing Co. let contact addition to CAMPBELL-COCKBURN CO., Vickers Bldg., about $50,000. Noted Sept. 7.

Ohio, Cleveland—Cleveland Galvanizing Works let contract factory to W. F. THOMPSON, Euclid Ave., about $30,000. Noted Jan. 13.

Ohio, Cleveland—Ohio Blower Co., 5125 Perkins Ave., let contract 4-story, 60x200-ft. plant to RENAUGH CONSTRUCTION CO., 2835 East 51st St. About $75,000. Noted Oct. 12.

Ohio, Cleveland—Vitreous Enameling Co., 5301 Sweeney Ave., let contract factory to S. AUSTIN & SONS CO., 14230 Euclid Ave., about $50,000.

Ohio, Lima—Standard Oil Co. of Ohio let contract 2-story warehouse to A. A. LANE, Youngstown, about $10,000.

Ohio, New Boston—(Portsmouth post office)—Whitaker-Glessener Co., Wheeling, W. Va., to build blast furnaces by day labor. About $1,000,000. Noted Aug. 17.

Ohio, Niles—National Quality Lamp Div., Ecla Park, Cleveland, let contract 2-story addition to S. AUSTIN & SONS CO., 14230 Euclid Ave., Cleveland, about $50 000.

Ohio, Toledo—A. J. & T. Bentley, 201 Belmont Ave., to build 2-story storage building by day labor. About $15,000.

Ind., Ft. Wayne—Anthony Knitting Mills let contract 2-story addition to F. KRUCHENBERG, 2527 Anthony Blvd. Noted Sept. 28.

Ind., Indianapolis—Silver King Novelty Co., 65 North New Jersey St., let contract factory and salesroom to SHIELDS-CHAPIN CONSTRUCTION CO., 220 North Illinois St. About $50,000.

Ind., Indianapolis—Gibson Co., 416 North Capital Ave., let contract 5-story service station and sales building to BEDFORD STONE AND CONSTRUCTION CO., 810 Fletcher Trust Bldg., about $300,000.

Ind., Kokomo—H. Broadlick, 204 South Main St., let contract 2-story bakery to BRAUN & HECKMAN, about $15,000.

Mich., Detroit—Detroit United Railway Co. let contract freight house, Monroe Ave., Chene, Dequindre and Macomb St. to W. E. WOOD, 1805 Ford Bldg. About $1,000,000. Noted Oct. 12.

Mich., Detroit—McMillan Estate, c-o H. F. Thurber, 804 Union Trust Bldg., let contract garage to JANSE BROS., BOOMER, CRAIN & HOWE, 906 Dime Bank Bldg. About $50,000.

Mich., Detroit—D. W. Simons, Majestic Bldg., let contract garage to be leased by Stuber, Stone Co., to A. J. SMITH CO., 11 Campau Bldg. About $50,000.

Mich., Flint—Trojan Laundry Co. let contract 2-story laundry to W. E. WOODS CONSTRUCTION CO., Paterson Blk. About $75,000. Noted June 22.

Mich., Kalamazoo—Kalamazoo Malleable Iron Co. to build 1-story, 250x300-ft. factory by day labor. About $125,000. Noted Oct. 19.

Ill., Chicago—Hughes Electric Heating Co., 211 West Schiller St., let contract factory Waller Ave. to HANSON BROS., 127 North Dearborn St. About $100,000. Noted July 27.

Ill., Chicago—Rayner, Dalheim & Co., 374 West Monroe St., let contract 3-story printing plant to G. ANDERS, 6820 Chapel Ave., about $45,000.

Ill., Chicago—Hoeft & Co. Ashland Ave. and Kinzie St., let contract 1-story warehouse to MENKE, THIELBERG & CO., 139 North Clark St., about $10,000. Noted Sept. 14.

Ill., La Salle—Standard Oil Co. let contract warehouse and garage to E. GOODMAN, 814 2nd St. About $30,000. Noted July 13.

Ill., Moline—Berg & Beck Co. let contract machine shop to A. CARLSON & CO., 1429 9th St. About $10,000.

Ill., Rockford—Rockford Overland Co. let contract public garage to G. HOLM, 1604 4th Ave. About $30,000.

Ill., Rock Island—Rock Island Plow Co. let contract tractor plant to C. J. LARKIN, 556 30th St. About $20,000.

Wis., Algoma—Ahanapee Veneer and Seating Co. to build 2 additions by day labor. Noted Aug. 24.

Wis., Beloit—Fairbanks-Morse Manufacturing Co. let contract 2-story, 190x256-ft. machine shop to LEONARD CONSTRUCTION CO., 332 South Michigan Ave., Chicago. Noted May 25.

Wis., Milwaukee—Munkwitz Realty Co., 431 Milwaukee St., let contract 3-story garage, to be leased by Hughes Motor Co., 495 Broadway, to MEYER CONSTRUCTION CO., 611 Merrill Blvd., about $50,000.

Wis., Racine—Harvey Spring and Forging Co. let contract 100x200-ft. plant to NELSON & CO. Robinson Bldg. Noted Sept. 28.

Iowa, Ft. Madison—American Fork and Hoe Co. let contract plant to C. M. HOHLEN, Burlington, about $100,000. Noted Aug. 31.

Kan., Wichita—Terminal Elevator Co. let contract 1,200,000 bu. grain elevator to LEHRACK CONTRACTING AND ENGINEERING CO., Wichita.

N. D., Dickinson—Dickinson Grocery Co. let contract warehouse to LAWRENCE CONSTRUCTION CO., Plymouth Bldg., Minneapolis.

Mo., St. Louis—D. L. Parrish, 3126 Olive St., let contract addition to laundry to GAMBLE CONSTRUCTION CO., 620 Chestnut St. About $30 000. Noted Aug. 10.

Mo., St. Louis—Rajmoeller-Flint House Furnishing Co., 6205 Easton Ave., let contract warehouse and store building to C. WELSCH CONSTRUCTION CO., 7050 Olive St., about $50,000.

Okla., Purcell—J. Abernathy let contract warehouse to STEWART & WILDERSON, Oklahoma, about $10,000.

Okla., Tulsa—Middle West Baking Co. let contract 2-story addition to BOYDELL CONSTRUCTION CO., about $25,000. Noted June 1.

Man., Transcona—Dept. Rys., Ottawa let contract grain elevator to FEGLES, BELLOWS & CO., Ft. William, about $500,000.

FEDERAL GOVERNMENT

Proposed Work

N. Y., New York—Dredging—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 4, in connection with Navy Yard. Noted Oct. 26.

N. Y., New York—Dredging—U. S. Engineer Office, Room 710, Armory Bldg., receiving bids Nov. 24, Hudson River Channel, N. Y.

N. Y., New York—Heating Plant—Const Quartermaster, New York, receiving bids Nov. 9, in warehouse, Governors Island, N. Y.

Penn., Beaver Falls—Post Office—Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Nov. 28. Noted June 8.

Md., Annapolis—Sea Wall—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 27, rein.-con., at U. S. Naval Academy.

D. C., Washington—Coast Guard Station and Accessories—Treasury Dept. receiving bids Nov. 28, at San Luis, Galveston Island, Tex.

D. C., Washington—Clock System—Superv. Arch., Treasury Dept., Washington, receiving bids Nov. 20.

D. C., Washington—Radio Masts—F. R. Harris, Ch. Bureau of Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 4.

La., New Orleans—Custom House—Superv. Arch., Washington, D. C., receiving bids Nov. 17 for remodeling. Noted Aug 24.

Ill., East St. Louis—Post Office—Superv. Arch., Washington, D. C., receiving bids Dec. 22 for remodeling.

Neb., Chadron—Post Office and Court House—Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Dec. 7.

Mont., St. Ignatius—Canal—U. S. Rec. Ser., Washington, D. C., receiving bids Nov. 28 for canal at Flathead Project, Mont.

Tex., Point Isabel—Artesian Well—F. R. Harris, Ch. Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 20, at Naval Radio Station, Point Isabel.

Wash., Ft. Flagler—Sewer—Const. Quartermaster, Ft. Worden, receiving bids Nov. 17.

Hawaii, Pearl Harbor—Crane—F. R. Harris, Ch. Bureau Yards and Docks, Navy Dept., Washington, receiving bids Nov. 27 (extension of date), 50 tons, for Naval Station. Noted Oct. 5.

Panama—Miscellaneous Supplies—Maj. E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Nov. 17.

Bids In and Contracts Awarded

R. I., Providence—Dredging—U. S. Engineer Office, Newport, received low bids Oct. 23, Providence Harbor, from J. S. Packard Dredging Co., 1004 Turks Head Bldg., Providence, $285,925; Bay State Dredging and Contracting Co., 247 Atlantic Ave., Boston, Mass., $294,200; Maryland Dredging and Contracting Co., 1515 Fidelity Bldg., Baltimore, Md., $325,440. Noted Sept. 28.

D. C., Washington—Battleships and Torpedo Boat Destroyers—Bids received Oct. 25 by the Sec. of Navy for 4 battleships, Nos. 45 to 48, and 20 torpedo boat destroyers, Nos. 75 to 94, as follows: Battleships—New York Shipbuilding Co., Camden, N. J., Parsons turbines, one vessel, $11,350,000, two vessels, $11,250,000 each, dock trial only. Delivery, one in 40, other in 46 months. For use of pine decking instead of teak, addition of $27,750; if fitted out as flagships, addition of $35,500 each; if propelling apparatus furnished by Department, deduction of $525,000 each. Fore River Shipbuilding Corporation, Quincy, Mass., Department's plans for hull and machinery, one vessel, $10,360,000, two vessels, $10,060,000 each; using Curtis turbines, one vessel, $11,016,000, two vessels, $10,716,000 each, Government to assume risks incident to increase of cost of labor and materials, and in the first proposition to furnish the propelling equipment. If the contractor is to assume risks above mentioned, prices are as follows: Government to furnish propelling machinery, one, $10,875,000 two, $10,875,000; contractor to furnish propelling machinery, one, $11,475,000, two, $11,475,000. Pine decking to be used instead of teak. Addition if vessels fitted as flagships, $40,000 each. Delivery, 42 and 48 months. Dock trials only. Newport News Ship Building and Dry Dock Co., Newport News, Va., Department to supply propelling equipment, one, $10,470,000, two, $10,375,000 each, bidder to supply Parsons or Curtis turbines, one, $10,990,000, two, $10,890,000 each. Deduction for use of pine decking instead of teak, $35,000 each. Addition for fitting as flagship, $50,000 each. Delivery, 39 and 45 months. Dock trials only. William Cramp & Sons Ship and Engine Building Co., Philadelphia, Penn., one vessel for actual cost of labor and materials plus ten per cent. Destroyers—Bath Iron Works, Bath, Maine, two, $1,185,000 each, three, $1,160,000 each, four, $1,150,000 each, delivery, 22 to 25 months; 1,154 tons displacement. Union Iron Works, San Francisco, two, $1,195,000 each, four, $1,190,000 each, six, first four for $1,190,000 each, fifth and sixth, $1,185,000 each; delivery, 22 to 26 months. Fore River Shipbuilding Corporation, Quincy, Mass., four, $1,175,000 each, six, $1,165,000 each, eight, $1,160,000 each, delivery, 24 to 30 months. Seattle Construction and Dry Dock Co., Seattle, Wash., one,. $1,386,000, two, $1,370,000 each, delivery, 22 months. William Cramp & Sons Ship and Engine Building Co., Philadelphia, Penn., two, $1,195,000 each, four, $1,195,000 each, delivery, 27 to 30 months.

D. C., Washington—Building—Low bidders Oct. 26 (a) construction, (b) mechanical equipment post office equipment shops, were: (a) Davis Construction Co., Washington, $120,936, National Fireproofing Co., Washington, $125,686, Hammet

Federal Government Work (Continued)

Fireproofing Co., Washington, $129,683; (b) W. G. Cornell Co., Washington, $47,849, Biggs Heating Co., Washington, $49,100, Standard Engineering Co., Washington, $49,480.

D. C., Washington—Grading Streets—Dist. Comrs. received low bids for grading, Item 1, Rhode Island Ave., 2, Todd Pl., 3, Franklin St., 4, Massachusetts Ave., from E. G. Gummell, Washington, Item 1, 40c., 2, 65c., 3, 28c., 4, 23c.; H. F. Voight Co., Item 2, 55c., 3, 17.5c., 4, 26c.; G. B. Mullen, Item 1, 33c., 3, 24c., 4, 27c. Noted Oct. 12.

W. Va., Buchannon—Post Office—U. S. Government let contract to VOLNEY E. TAYLOR, Huntington. About $38,800. Noted Oct. 26.

Ill., Chicago—Breakwater—U. S. Engineer Office, 508 Federal Bldg., Chicago, received low bids at Chicago Harbor from Byrne Bros. Dredging and Engineering Co., 208 S. La Salle St., Chicago, at $1.64; Great Lakes Dredge and Dock Co., Monroe Bldg., Chicago, at $1.29; Edward Gillen Dock Dredge and Construction Co., 112 N. Erie St., Racine, Wis., at $1.21. Noted Sept. 21.

N. D., Dickinson—Post Office—U. S. Government let contract to CHARLES WEITZ SONS, Des Moines, Iowa. About $71,287. Noted Oct. 26.

Idaho, Boise—Post Office—Superv. Arch., Treasury Dept., received low bids from Welch Bros. and Hannaman, Kalispell, Mont., $32,874; A. S. Whiteways, Boise, $33,857; Henrikson & Co., Seattle, Wash., $34,448. Noted Sept. 21.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., Albany—(Official)—Barge Canal Work—W. W. Wotherspoon, State Supt. Pub. Wks., Capitol, receiving bids Nov. 21 for completing improved Erie Canal at intersections with old Erie Canal and incidental work between Jacksonburg and Herkimer, Contract No. 30-A, Sect. 4; about $122,013; constructing lift bridge on Adams St., Lockport and removing existing lift bridge at Chapel St., Contract No. 98, Sect. 10, about $77,496; furnishing and installing steel stiff leg derricks on terminal sites at Albany, Whitehall, Little Falls, Rome, Lockport and Tonawanda, Terminal Contract No. 101, about $21,891.

Fla., Jacksonville—Drainage—Baldwin Drainage Dist., Consolidated Bldg., receiving bids Nov. 15 for 1,750,000-cu.yd. open ditch and concrete spillways, Duval County.

Fla., Jacksonville—Drainage—Upper St. Johns Drainage Dist. to make surveys for draining about one half million acres. Isham, Randolph & Co., Jacksonville, Engr.

Fla., West Palm Beach—Canals—Moore & Adams Co., Odebolt, Iowa, purchased 11,520 acres on Hillsboro Canal, 7 mi. east of Lake Okeechobee and plans drainage canals. W. P. Adams, Pres.

Miss., Marks—(Official)—Drainage—Comrs. Indian Creek Drainage Dist. Sledge, receiving bids Nov. 15 for about $1,664,500 cu.yd. ditches and 737,500 cu.yd. levee. Morgan Engineering Co., 608-14 Goodwyn Institute Bldg., Memphis, Engr. Noted Sept. 21.

Tenn., Brownsville—Drainage—Haywood County making plans, Mud Creek Dist., 1,700 acres, about $12,000. Ferree & McCleskey Engr.

Tenn., Dyersburg—Drainage—Bogota Drainage Dist. of Dyer and Obion Counties, Court House, receiving bids Nov. 28 for 8-mi. ditch.

Ill., Quincy—Drainage—Hunt and Lima Drainage Dist. made plans for reclaiming 30,000 acres. About $500,000. E. T. Perkins Engineering Co., Quincy, Engr. Noted Sept. 14.

Iowa, Carroll—Drain—Carroll County making plans for Drain No. 77. About $25,000.

Iowa, Sac City—Drainage—Sac County soon receives bids for work Goose Pond Drainage Dist. J. H. Mayne, Merriam Blk., Council Bluffs, Engr.

Minn., Elbow Lake—Ditch—Grant and Tranverse Counties receiving bids about Jan. 15 for Judicial Ditch No. 6, about 250,000 cu.yd. C. M. Nelson, Elbow Lake, County Audr.

Minn., Montevideo—Ditch—Chippewa County receiving bids Nov. 4 for Ditch No. 25, about 9,850-ft. of 19- to 18-in. tile. Address County Clk., Montevideo.

Minn., Moorhead—Ditch—Clay County lets contract Ditch No. 40 about Dec. 1. A. O. Houglum, Audr.

Minn., Moorhead—Ditch—Clay County to let contract Ditch Nos. 41 and 42 about Jan. 1. A. O. Houglum, Audr.

Minn., New Ulm—Ditch—Brown County receiving bids Nov. 6 for County Ditch No. 30, about $11,659. L. G. Vogel, New Ulm, County Audr.

Kan., Kansas City—Drainage—Kaw Valley Drainage Dist. of Wyandotte County receiving bids Nov. 8, about 6,650-ft. levee requiring about 42,230 cu.yd. embankment. P. J. Broll, 719 Osage Ave., Secy. Noted Oct. 12.

S. D., Flandreau—Drainage—Lake and Moody Counties plan joint drainage ditch to drain about 2,500 acres. About $93,000. Address County Clk., Flandreau.

N. D., Fargo—Ditch—Cass County let contract Osgood Drain No. 21, 115,000 cu.yd. land work, about Dec. 16; Davenport Drainage Project, 600,000 cu.yd. floater work and 1,000,000-cu.yd. dry land work about Jan. 1. W. A. Tucker, Fargo, Audr.

N. D., Wahpeton—Ditch—Richland County lets contract Ditch No. 24 about Dec. 1. F. A. Burton, Wahpeton, County Audr.

Mo., Butler—Drainage—Bates County receiving bids Nov. 6, about 150,000 yd. J. A. Flaming, Butler, Engr.

Mo., Kahoka—Drainage—Gregory Drainage Dist. receiving bids Nov. 9 for 6¼-mi. levee, including 257,000 cu.yd. levee best fitted for dragline machines, 4,400 cu.yd. muck ditch under levee, 12,600 cu.yd. levee work best fitted for scraper work or hydraulic dredge and 27 acres clearing and grubbing. J. P. Foley, Gregory Landing, Secy. E. T. Perkins Engineering Co., Engr. Noted Oct. 5.

Tex., Liberty—Drainage—Raymond Dist. sold $70,000 bonds. Noted Mar. 9.

Utah, Salt Lake City—Canal—Utah Copper Co. plans, about 7 mi.

Wash., Ellensburg—Irrigation—Kittitas County Reclamation Dist. granted option on $5,000,000 bond issue to syndicate headed by Twohy Bros., Spokane. Syndicate plans to build entire canal project to irrigate about 90,000 acres. J. R. Holman and R. H. Thomson, Engr.

Calif., Santa Rosa—Drainage—Bellevue-Wilfred Drainage Dist. voted $20,900 bonds. Noted June 1.

Calif., Tracy—Irrigation—West Side Irrigation Dist. plans election to vote on $195,000 bonds for canals. Noted May 11.

Bids In and Contracts Awarded

Mass., Boston—(South Boston)—Dredging—Comrs. on Waterways and Pub. Lands, 40 Central St., Boston, received low bid dredging 4,500 cu.yd. Boston Harbor from Bay State Dredging and Contracting Co., 247 Atlantic Ave., about 47c. per yd.

N. C., Greensboro—Drainage—Guilford County let contract draining about 24 mi. dredge ditches in Broad River Drainage Dist. to THOMPSON & MOSELEY, INC., Greensboro.

S. C., Charleston—Dredging—City let contract to L. T. GAYLORD, 13 Park Row, New York, 12.97c. per cu.yd.

Ga., Savannah—Canal—County to extend Casey Canal to Savannah River by day labor. About $50,000 available. E. R. Conant, Savannah, Ch. Engr. Noted Sept. 14.

Ohio, Troy—(Official)—Ditch—County let contract to W. BARNHART, West Milton.

Ohio, Urbana—Ditch—Champaign County let contract Stephenson Ditch, Adams Township, to WEHINGER BROS., Wapakoneta.

Ill., Carlyle—Drainage—Santa Fe Levee and Drainage Dist. No. 2 let contract excavation to B. KIFFERMEYRE.

Ill., Chenoa—Ditch—Golden Rule Drainage Dist. let contract to C. FOSNAUGH, about $14,991.

Ill., Paxton—Ditch—Ford County let contract enlarging and cleaning out ditch to LEWIS & MEECE, Atwood, 12c. per cu.yd. Noted Sept. 28.

Minn., Eveleth—Drainage—Oliver Mining Co. let contract drainage system to L. McCANN CO., Eveleth, about $125,000.

Minn., Moorhead—(Official)—Ditches—Clay County let contract Ditches Nos. 26, 27 and 38 to KING & EICHMILLER, Frazee, about $15 464. Noted Oct. 5.

Minn., Moorhead—Ditch—Clay County let contract Ditch No. 39 to NORTHERN DREDGE AND DOCK CO., Duluth. Noted Oct. 5.

Ark., Newport—Drainage—Comrs. Mayberry Slough Drainage and Levee Dist. let contract drainage Village Creek Basin to D. WEST, about $210,000. Noted Apr. 13.

Calif., Long Beach—(Official)—Drainage—Signal Hill Drainage Dist. let contract to J. KENNEDY, 901 Washington Bldg., Los Angeles, about $84,936. Noted Sept. 28.

MISCELLANEOUS

Proposed Work

Mass., Longwood—(Boston post office)—Recreation Building—Noble and Greenough School plans. J. L. Little, Arch.

N. Y., Albany—Parks—State Election Nov. 7 to vote on $10,000,000 bonds for increasing area of State Parks, namely Adirondack and Catskill Parks of Forest Preserve and Palisades Interstate Park, Proposition No. 1.

N. Y., Esperance—Elimination of Grade Crossing—Delaware & Hudson Co. plans, near Schoharie Junction. J. MacMartin, Albany, Ch. Engr.

N. Y., Oswego—Subway—City plans, under tracks of New York Central and Ontario & Western Ry. tracks. J. F. Flanigan, City Engr.

N. Y., Rochester—Retaining Wall—City making preliminary plans, concrete, Johnson and Seymour Dam. About $140,000. E. T. Elwood, City Engr. E. A. Fisher, City Hall, Consult. Engr.

N. Y., Syracuse—Recreation Grounds and Park Improvements—Council voted $19,000 bonds. H. A. Allen, City Engr.

N. Y., Syracuse—Bathhouse—Council voted $10,000 bonds, Burnet Park swimming pool. H. A. Allen, City Engr. Noted Aug. 10.

Penn., Philadelphia—Turntable—Philadelphia & Reading Ry. plans, Tulip St. engine yards, superstructure to be of rein.-con. S. Wagner, Reading Terminal, Philadelphia, Engr.

Penn., Pittsburgh—Pavilion—Park Comrs. plan Hunting Park. Council to be asked to appropriate $100,000.

Va., Abington—Elimination of Grade Crossing—Norfolk & Western Ry. plans. J. E. Crawford, Roanoke, Ch. Engr.

W. Va., Fairmont—Fire Station—City election Dec. 15 to vote on $8,000 bonds. A. Bowen, Mayor.

La., New Orleans—Aquarium—City plans, West End Park. W. J. Hardee, City Engr.

Ohio, Cleveland—Fire Station—Council passed ordinance authorizing bond issue for fire station on Carnegie Ave. J. E. Gtanger, Fire Ch. Noted Oct. 12.

Ohio, Columbus—Flood Protection—Conservancy Bd. adopted flood protection plan of Alvord & Burdick. Noted Sept. 21.

Ohio, Elyria—Undercut—New York Central R.R. Lines West of Buffalo, plans Winckles St. About $190,000. 65% to be borne by railroad, 35% to be divided between city and Green Car line. G. C. Cleveland, St. Clair Ave. and West 3rd St., Ch. Engr.

Ohio, Lima—River Improvements—City receiving bids Nov. 20 for purchase of bonds for improving Ottawa River. D. L. Rupert Audr. C. H. Bryson, City Engr. Noted Oct. 26.

Ohio, Proctorville—(Official)—Grand Stand—City receiving bids Nov. 4, Fair Grounds. A. C. Robinson, Member Bldg. Com. Noted Oct. 5.

Ohio, Youngstown—Comfort Stations—Council passed ordinance appropriating $7,000. F. M. Lillie, City Engr. Noted Aug. 24.

Ohio, Zanesville—Revetment—Council passed ordinance for concrete revetment along Licking River. C. Spencer, City Engr.

Ind., Ft. Wayne—Subway—New York Central R.R., Lines West of Buffalo, plans, Sherman St. About $26,000, $20,000 to be borne by railroad and $6,000 by city. G. C. Cleveland, St. Clair Ave. and West 3rd St., Cleveland, Ch. Engr. F. M. Randall, City Engr.

Ind., Indianapolis—Pools—Council plans artificial swimming pools. C. Viebahn, City Recreation Comr.

Mich., Bay City—Street Flusher—Council rejected bids. To be readvertised. H. C. Thompson, City Engr.

Mich., Boyne City—Playgrounds—City election Nov. 7 to vote on $6,000 bonds.

Mich., Detroit—Subway—J. L. Hudson Co. plans, 300-ft. steel across Farmer St. and Library Park Ave. R. H. Webber, Woodward and Gratiot Ave., Pres. Smith, Hinchman & Grylls, Washington Arcade Bldg., Engr.

Ill., Hillsboro—Subway—Bd. Pub. Utilities petitioned to build subway over tracks of Cleveland, Cincinnati, Chicago & St. Louis Ry. on School St. C. A. Paquette, Cincinnati, Ch. Engr.

Ill., Maywood—Elimination of Grade Crossings—Chicago & Northwestern R.R. plans, Bellwood and Melrose Park. About $2,000,000. W. H. Finley, Jackson Blvd. and Franklin St., Chicago, Ch. Engr.

Wis., Madison—Park Improvements—Madison Park and Pleasure Drive Assoc. plans to improve Henry Vilas Park, about $84,842.

Minn., Minneapolis—Elimination of Grade Crossings—St. Anthony Commercial Club interested in project to eliminate all crossings of Great Northern and Northern Pacific Rys. About $500,000. F. H. Smith, Secy.

Wis., Monroe—Swimming Pool—City plans election in spring to vote on $10,000 bonds.

Minn., Bemidji—Park—State Bd. Investigation granted city $25,000 for park. T. Swinson, City Engr.

Neb., Omaha—Flood Prevention—County plans flood prevention by building 2 storage reservoirs to catch flood waters of Indian Creek. Address County Clk., Omaha.

N. D., Mandan—Block Signal System—Northern Pacific Ry. plans, between Mandan and Glendive, Mont. W. L. Darling, St. Paul, Ch. Engr.

Mo., Jefferson City—Retaining Wall—Council adopted resolution for retaining wall on Monroe St. P. C .Hardin, City Engr.

Mo., Kansas City—Flood Prevention—City plans flood prevention dike along south bank of river from Grand Ave. to Blue River Bluff. About $576,024. C. Hill, City Engr.

Mo., Kansas City—Comfort Stations—City plans, about $40,000 available. C. Hill, City Engr.

Mo., St. Louis—Subway and Elevated Railway—A. Hooke, Dir. Pub. Utilities, submitted report for plan to elevate tracks of Hodiamont St. car line from Vandeventer Ave. and Morgan St. to Hodiamont and Maple Ave. Plans also include concrete walls for elevated railway and subway under Morgan and Franklin Ave. to connect with railway at Vandeventer Ave. About $600,000. E. R. Kinsey, Pres. Bd. Pub. Ser.

Tex., Palestine—Levee Work—Anderson County Levee Dist. No. 1, voted $32,500 bonds. Address County Clk., Palestine.

Okla., Sapulpa—Fire Station—City plans, about $5,000. R. A. Jenness, City Clk.

Miscellaneous (Continued)

Wash., Seattle—King County plans to spend about $1,250,000 for road and bridge work next year. A. P. Denton, Seattle, County Engr.

Wash., Seattle—Market—Frye Packing Co. making plans, 2-story, east side 1st Ave. About $60,000.

Calif., Longbeach—Pier—City defeated $500,000 bonds, Pine and American Ave. A. de Ring, City Engr. Noted Sept. 28.

Calif., Long Beach—Harbor Improvements—City voted $300,000 bonds. Noted May 11.

Man., Brandon—Curling Rink—Brandon Curling Club plans.

Que., Sherbrooke—Fire Station—City plans. About $25,000. E. C. Gatien, Secy.

N. B., St. John—Pipe—City soon receives bids for about 3,000 ft. of 29-in. c.-i. pipe. About $30,000. R. W. Wigmore, Comr.

Md., Baltimore—Fill—State Rds. Comn., Garrett Bldg., receiving bids Nov. 14 for about 55,000 cu.yd. fill over Sinepuxent Bay between State Rd. and Ocean City, Contract No. No-16, Worcester County.

Bids In and Contracts Awarded

Mass., Boston—(Dorchester)—Grading and Seawall—City let contract, Savin Hill Beach, to H. NAWN CONTRACTING CO. 82 Savin St., Roxbury, about $102,890.

Mass., Boston—(South Boston)—Wharf Etc.—Edison Electric Illuminating Co., 39 Boylston St., let contract extension wharf and bulkhead to W. L. MILLER CO., 171 Alford St., Charleston, about $40,000.

Mass., Fall River—Coal Pocket—Staples Coal Co., 29 Bedford St., let contract to CHASE & BOOTH, INC., Davol St., about $15,000.

Mass., Revere—Fire Station—Low bidders, 2-story, were MacDonald & Griffin Co., 161 Summer St., Boston, $13,465 and J. Cyr & Son Lawrence, $13,664. Noted Oct. 5.

Mass., Rutland—Recreation House — Rutland Private Sanitarium let contract to L. ROCHEFORD & SON, Worcester, about $9,000.

N. Y., New York—(Brooklyn)—(Official)—Pub. Ser. Comn. let contract concrete track floors and platforms over mezzanines of 11 stations on Culver Rapid Transit R.R. between 37th St. and 10th Ave. and intersection of Gravesend Ave. and Ave. X to SNARE & TRIEST, 233 Broadway, New York, about $52,654. Noted Oct. 26.

N. Y., New York—(Brooklyn)—Shed—J. H Mankin Building Material Co., Broadway and Myrtle Ave., let contract to F. WEBER & SONS, 192 Woodbine St., about $20,000.

N. Y., Syracuse—(Official)—Race Track—New York State Fair Comn. let contract to J. YOUNG, Syracuse, about $75,486. Noted Oct. 19.

N. Y., Syracuse—(Official)—Removal of Grand Stand—New York State Fair Comn. let contract to WARSAW CONSTRUCTION CO., INC., Warsaw, $9,971. Noted Oct. 19.

N. J., Longport—(Official)—Seawall—Borough Comrs. received bids from Sutton & Corson Co., $560,139; E. L. Bader, $569,030; J. Ferry & Sons, $583,997. Noted Oct. 19.

N. J., Trenton—Channel Improvements—Pennsylvania R.R. let contract to A. McMULLEN CO., Singer Bldg., New York, about $100,000.

Penn., Connellsville—Engine House—Baltimore & Ohio Railroad Co. let contract to G. B. SWIFT CO., 189 West Madison Ave., Chicago, about $15,000.

Penn., Pittsburgh—Retaining Wall—City let contract, Mountford Ave., to NORTH SIDE CONSTRUCTION CO., Gretto St., N. S., about $4,325. Noted Oct. 5.

Penn., Pittsburgh—Tunnel—County let contract tunnel under sidewalk of new city-county building Grant, Diamond and Ross St. and 4th Ave. to T. McNALLY CO., Oliver Bldg., about $6,351.

Penn., Roaring Branch—Dike—County received bids along Lycoming Creek from A. A. Bennett, $6,945 and J. Sanders, $7,900.

La., Hagaman—Levee Work—City let contract to DONOVAN & DALEY, Lake Providence, about $8,190.

La., Lake Providence—Levee—Tensas Parish let contract to F. T. CONSTANT.

La., New Orleans—Levee Work—State Bd. Engrs. received low bids as follows: Buck Hall, Bossier Parish, 61,000 cu.yd. new levee, W. M. Rushing, 15.70c.; Dixie Levee, Caddo Parish, 16,000 cu.yd.. J. M. Montgomery, 16.80c.; Atchafalya Basin Levee, H. Hedburg, 32c.

Ohio, Cleveland—Elimination of Grade Crossings—New York, Chicago & St. Louis R.R. let contract between Fulton Rd. and Detroit Ave. to WALSH CONSTRUCTION CO., 1116 Citizens Bldg., about $2,900,000. Noted Sept. 9.

Ohio, Lima—Fire Station—City let contract to J. LEU, Lima, about $16,000. Noted July 13.

Ohio, Portsmouth—Earth Removal—City received low bid removal of 10,000 cu.yd. earth from slip known as Damarin Hill from G. White. Noted Oct. 5.

Ind., Evansville—Engine House—City let contract addition to Engine House No. 9 to J. BIPPUS & SON, Builders' Exchange, about $6,000.

Ind., Indianapolis—Flood Prevention—City let contract flood prevention work on Fall Creek to AMERICAN CONSTRUCTION CO., about $113,300. Noted Oct. 12.

Ind., Indianapolis—Train Sheds, Etc.—Union Stockyards, Chicago, to build train sheds, loading and icing platforms, ice-crusher building, etc., by day labor.

Wis., Milwaukee—Sprinkler System—O. R. Piper let contract to GLOBE AUTOMATIC SPRINKLER CO., Chicago.

Iowa, Harlan — River Improvements — Shelby County let contract straightening 6 mi. Nishnabotna River to LANA CONSTRUCTION CO., Council Bluffs.

Minn., Duluth — Dock — Duluth, Missabe & Northern Ry. let contract ore dock to BARNETT RECORD CO., Lyceum Bldg., Duluth, about $109,000. Noted Aug. 10.

S. D., Sioux Falls—Fire Station—City let contract to SIOUX FALLS CONSTRUCTION CO., Sioux Falls, about $12,362.

Tex., Clarksville—Levee—Red River County Impvt. Dist. No. 1 let contract 350,000 cu.yd. levee along Sulphur River to H. J. COX & CO., Alexandria.

Tex., Hamlin—Dam—City let contract rein.-con. dam over California Creek to W. D. HENDERSON, Sweetwater, about $31,400. Noted Sept. 28.

Tex., Houston—(Official)—Fire Station—City to build by city forces. L. O. Andrews, Fire Comr. Noted Oct. 12.

Tex., Orange—(Official)—Wharf and Bulkhead—City received bids from W. Moore & Son, Texas City, $40,703; Spence & Howe Construction Co., Port Arthur, $45,147; J. Jacobson, Texas City, $45,573. Noted Oct. 12.

Calif., Salinas — Bank Protection — Monterey County let contract along Salinas River to MIDLAND BRIDGE CO., St. Louis, about $10,000.

Calif., San Francisco—Sea Wall—State Bd. Harbor Comrs. let contract between Jones and High St. to BLAKE BROS., Oakland, about $66,150. Noted Oct. 26.

Que., Montreal—Head Gates—City let contract, Lachine Canal, to T. O. SULLIVAN, 47 St. Louis Sq., about $100,000. Noted June 8.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Mass., Boston—Theater, Store and Lodge Building—Orient Heights Amusement Co. making plans. About $100,000. Edward F. Tirell, 44 Bromfield St., Arch.

Mass., Cambridge—Bank—National Bank making plans. William L. Mowll, 185 Devonshire St., Boston, Arch.

Mass., Lowell—Lowell General Hospital receiving bids Nov. 7 for 2-story, 40x180-ft. building on Varnum Ave. About $125,000. Kendall Taylor & Co., 93 Federal St., Boston. Noted Sept. 7.

Mass., Lowell—High School—City making plans for addition. About $400,000. Henry L. Rourke, Hildreth Bldg., Lowell, Arch.

Mass., Maynard—Grammar School—Bd. Education plans 2-story. About $55,000.

Conn., Bridgeport—City making plans public welfare building at Washington and Madison Ave. About $100,000. Leonard Asheim, Bridgeport, Arch.

N. Y., Albany—Hotel—Kenmore Hotel, 76 North Pearl St., making plans, 5-story. About $50,000. J. S. Shattuck, 2 North Pearl St., Arch.

N. Y., Ft. Edward—Church—St. Joseph's Congregation making plans, 2½-story. About $60,000. M. L. and H. G Emery, Bible House, New York, Arch. Noted Oct. 26.

N. Y., New York—(Brooklyn)—L. H. Pounds, Borough Pres., Room 2, Borough Hall, receiving bids Nov. 15 for foundations and superstructures in connection with south or Flatbush Ave. wing of Central Library building, Prospect Park Plaza between Flatbush Ave. and Eastern Pkway.

N. Y., New York—(Bronx)—(Official)—School—C. B. J. Snyder, Supt. School Bldgs., Dept. Education, 59th St. and Park Ave., Manhattan, receiving bids, brick, Prospect Ave. and Jennings St., Bronx.

N. Y., New York—Manhattan—Hospital—Bd. Trustees Bellevue Hospital receiving bids Nov. 10 for additions. John W. Brannan, Pres.

N. Y., New York—(Official)—(Manhattan)—Bradish Johnson Estate, 39 Courtland St., receiving bids, 16-story, 624x195-ft. loft building. About $450,000. Maynicke & Francke, 25 East 26th St., Manhattan, Arch.

N. Y., New York—(Official)—(Manhattan)—Consolidated Gas Co., 130 East 15th St., making plans 2-story, brick, rein.-con. building.

N. Y., New York—(Official)—(Manhattan)—Synagogue—William Fischman of Jewish Center, Inc., 220 5th Ave., receiving bids, 4-story, 66x100-ft. About $150,000. L. A. Abramson, 220 5th Ave., Manhattan.

N. Y., New York—Brooklyn—(Official)—Goodwin & Starrett, 8 West 40th St., Manhattan, receiving bids for 22-story, 58x100-ft. office building, at Court and Remson St. About $500,000. Starrett & Van Vleck, 8 West 40th St., Arch.

N. Y., New York—Manhattan—(Official)—Theater—E. Rush, 1482 Broadway, receiving bids, 1-story, 75x100-ft., 148 West 48th St. About $75,000. P. Pereira, 220 West 42d St., Arch.

N. Y., New York—Manhattan—(Official)—City receiving bids for dormitory, 2-story, 57x134 ft., Randalls Island. About $90,000. D. Baker, 101 Park Ave., Arch.

N. Y., New York—Manhattan—(Official)—National Cloak and Suit Co., 7th Ave., 24th to 25th St., plans extending building.

N. Y., Scarsdale—(Official)—Clubhouse—Sunningdale Country Club, Mt. Vernon, receiving bids, 1½-story. About $60,000. Robert D. Kohn, 56 West 45th St., Arch.

N. J., Bradley Beach—Bank and Building—First National Bank revising plans, 4-story. About $50,000. Mowbray & Uffinger, 56 Liberty St., Manhattan, Arch.

N. J., Exeter—Gymnasium and Swimming Pool—Phillips Exeter Academy soon lets contract, 10-story, 80x100-ft. About $100,000. F. A. Colby, 15 East 40th St., New York, Arch. Noted Oct. 19.

N. J., Nutley—School—Bd. Education receiving bids Nov. 9, 2-story, on Bloomfield Ave. About $40,000. Conklin & Convery, 665 Broad St., Newark. Noted Aug. 17.

Penn., Coraopolis—High School—Bd. Education making plans. About $100,000. F. MacCrooks, Century Bldg., Pittsburgh, Arch. Noted Sept. 7.

Penn., Erie—Club—Kwakiva Club revising plans, 2½-story. About $75,000. Clark Wright, Evans Coal Exchange Bldg., Arch.

Penn., Philadelphia—Dormitory—City making plans 5 buildings, 1-, 2- and 3-story. About $150,000. Philip H. Johnson, Land Title Bldg., Arch.

Penn., Philadelphia—Home for Feeble-Minded making plans for 5 buildings, stone and concrete. Philip H. Johnson, Arch.

Penn., Reinerton—School—City making revised plans, 2-story, brick. Hauer & Mowers, Lebanon, Arch.

Penn., Rochester—Hospital—Rochester General Hospital making plans, 3-story addition. About $50,000. F. I. Merrick, Empire Bldg., Pittsburgh, Arch. Noted Sept. 28.

Penn., Wilkes-Barre—Parish House—St. Stephens Episcopal Church made plans, 3-story, 80x140-ft. About $100,000. Noted July 27.

Penn., York—School—School Bd. soon lets contract. About $80,000.

D. C., Washington—Municipal Lodging House—City plans, 5-story. About $40,000. Snowden Ashford, Dist Bldg., Arch.

D. C., Washington—Theater—Garden Moving Picture Theater, 423 9th St., making plans. About $500,000. A. P. Clark, Jr., 814 14th St., Arch.

Va., Hampton—High School—City plans 3-story. About $50,000. J. W. Hopo, Pres. School Bd.

Va., Newport News—Masonic Temple—F. & A. M. making plans, 4-story, 122x49 ft. About $40,000. Ferguson, Catrow & Wrenn, Virginia Bank Bldg., Norfolk, Arch.

W. Va., Clarksburg—Church—Methodist Protestant Church plans. About $40,000.

W. Va., Huntington—Hospital—St. Francis Hospital Association receiving bids Nov. 10, 3-story. About $200,000. Meanor & Sweeney, Arch.

S. C., Greenville—Hospital—City voted $100,000 bonds. W. F. B. Haynsworth, City Engr. Noted Sept. 21.

La., Bogalusa—Schools—See item under "Water-Works."

Tenn., Clarksville — Church — First Baptist Church soon lets contract. About $50,000. John Gaisford, Goodwyn Institute Bldg., Memphis. Noted Oct. 12.

Ky., Bowling Green—City making plans for city and county hospital. About $50,000.

Ky., Louisville—Church—First Church of Christ plans 3rd St. and Ormsby Ave. About $90,000.

Ohio, Bedford—School—Town election Nov. 7 to vote on $50,000 bonds. Ella F. Senter, Clk., Bd. Education.

Ohio, Chillicothe—Memorial Hall and Armory—Ohio National Guard receiving bids Dec. 1, 2-story, 70x200-ft. About $65,000. Fred Elliott, Chamber of Commerce Bldg., Columbus, Arch. Noted June 1.

Ohio, Columbus—Dormitory—Franklin County Children's Home soon receives bids. W. H. Tremaine, Arch. Noted Oct. 5.

Ohio, Columbus—Fraternity House—Charles A. Insco, Arch., 1209 Brunson Bldg., made plans, 3-story.

Ohio, Dayton—School—Bd. Education receiving bids Nov. 16, Whittier School, in Edgemont, Dayton. E. H. Herr, Pres.

Ohio, Dayton—Bd. Education receiving bids Nov. 16 for Cleveland School, Ohmer Park. Albert Pretzinger and Albert P. Muzzelman, 1155-1162 Reibold Bldg., Archs.

Ohio, Lakewood—Church—Lakewood Baptist Church making plans, Lincoln and Detroit St. J. W. C. Gorbueir, 309 Lennox Bldg., Cleveland. Arch.

Buildings (Continued)

Ohio, Lebanon—High School—Village School Dist. voted $60,000 bonds.

Ohio, Lebanon—Lebanon University plans 2-story building. About $150,000.

Ohio, Middletown—Temple—Hamilton Lodge No. 39, Knights of Phythias, plans, on North 2nd St. About $65,000.

Ohio, Somerset—Grade and High School—Bd. Education making plans, 2-story, 150x80-ft. About $40,000. Rusk & Sheets, 608 Brunson Bldg., Columbus, Arch.

Ohio, Warrensville—School—Beehive Bd. Education receiving bids Nov. 20. About $43,000. Guy W. Shurmer, Clk., A. W. Rust Co., 8451 Broadway, Cleveland, Arch. Noted Sept. 28.

Ohio, Weston—School—School Bd. receiving bids Dec. 1 for 3-story, 104x75-ft. About $45,000. S. P. Stewart & Son, Bowling Green, Arch. Noted Oct. 12.

Ind., Ft. Wayne—Lodge—Knights of Columbus making plans, 3-story, 92x150-ft. About $60,000. C. Weatherhogg, Hamilton National Bank, Arch. Noted July 6.

Ind., Gary—First Reformed Church made plans for building, 5th and Pierce St. About $50,000. J. M. Johnson, Pastor. Noted Oct. 19.

Ind., Indianapolis—High School—Bd. School Comrs. receiving bids Nov. 14 for $150,000 bonds. Noted June 8.

Ind., Terre Haute—School—Bd. Education making plans, 2-story, 78x150-ft. About $70,000. Johnson & Miller, 105 South 7th St., Arch.

Mich., Midland—(Official)—Donor Dow Chemical Co. receiving bids No. 5 for 2-story community building. About $50,000. Cowles & Mutsheller, 114 Washington St., Saginaw, Arch. Noted Oct. 5.

Ill., Danville—Bank and Office Building—First National Bank receiving bids Dec. 15, 10- and 12-story. About $150,000. Noted Mar. 9.

Ill., McLeansboro—High and Grade School—Bd. Education making plans, 2- or 3-story. About $40,000. R. G. Kirsch, 4067 Magnolia Ave., St. Louis, Mo., Arch.

Ill., Manteno—High School—Manteno Township making plans.

Ill., Oak Park—Willis S. Herrick, Pres. State Bank of Oak Park, will construct buildings at Oak Park Ave. About $100,000.

Wis., Beloit—City to make plans for city hall. G. E. Heebink, City Engr.

Wis., Pewaukee—High School—Bd. Education soon receives bids, 2-story. About $42,000. Van Ryan & DeGalleke, Caswell Blk., Milwaukee, Arch. Noted Oct. 26.

Wis., Madison—Y. M. C. A. plans building. About $150,000.

Wis., Manitowoc—Schools—City election Nov. 7 on $50,000 bonds. Rich Oestrich, Clk.

Wis., Marinette—Y. M. C. A. plans building.

Iowa, Havelock — (Official) — School—Consolidated School Dist. receiving bids Nov. 25, 2-story, 62x152-ft. About $55,000. Martin & Hoskins, Storm Lake, Arch. Noted Oct. 5.

Iowa, Rolfe—School—Bd. Education receiving bids Nov. 9, 2-story, 63x153-ft. About $70,000. G. L. Lockhart, Endicott Bldg., St. Paul, Minn., Arch. Noted Sept. 28.

Minn., Argyle—High School—City voted $42,000 bonds for remodeling.

Minn., Comfrey—High School—School Dist. No. 49 voted $45,000 bonds.

Minn., Comfrey—Church—Scandinavian Luthern Church making plans. About $45,000. Henry Gerlack, Mankato, Arch.

Minn., Minneapolis—Y. M. C. A.—Long-Lamoreaux & Long, 830 Hennepin Ave. will make plans, 125x160-ft., 8-stories.

Minn., Red Wing—School—School Dist. Nos. 3, 4 and 18 voted $40,000 bonds. L. C. Meyer, City Clk.

Kan., Augusta—Hospital—Roman Catholic Congregation making plans. About $40,000. Markgrad & Mampe, Arch. Noted Oct. 12.

Kan., Neodesha—High School—Bd. Education plans. About $100,000.

Kan., Newton—School—Bd. Education receiving bids Dec. 1 for 2-story, 90x130-ft. About $60,000. Greenbaum & Hardy, 216 Scarritt Bldg., Kansas City, Mo., Arch. Noted Oct. 26.

Kan., Wichita—Jail—County Comrs. soon to receive bids, 6-story, 40x90-ft., brick, steel and rein.-con. About $100,000. Rose & Peterson, Barker Bl., Kansas City, Arch. Noted Oct. 5.

Neb., Beatrice—Hospital — German Lutheran Hospital Association making plans. About $50,000 or $75,000.

Neb., Plattsmouth—School—Bd. Education to vote Nov. 7 on additional bond issue, 2-story, 64x120 ft. About $65,000. Berlinghoff & Davis, Security Mutual Life Bldg., Lincoln, Arch. Noted July 20.

Mo., St. Joseph—Church—First Christian Congregation receiving bids in November, 2-story, 75x110-ft., 10th and Faaraon St. About $80,000. Walter Boschen, Tootle Lemon Bank Bldg., Arch. Noted Sept. 28.

Tex., Amarillo—School—City plans. About $50,000.

Tex., Beaumont—W. C. Tyrell and J. Cook retained W. F. Steinman & Son, Beaumont, to make plans for 10-story, rein.-con. office building. About $200,000.

Tex., Mineral Wells—Hotel—Lizzie More soon to let contract 3-story addition. H. Leinbach, 1105 Southwestern Life Bldg., Dallas, Arch.

Tex., Port Arthur—Stone & Webster Engineering Corporation plans office building on Austin St.

Tex., Refugio—Courthouse—Refugio County to vote Nov. 25 on $75,000 bonds. Noted Oct. 5.

Tex., San Antonio—High School—City made plans, on Main Ave. About $100,000. Ralph H. Cameron, Arch.

Tex., Temple—Home for Aged—Eastern Star plans. About $100,000. Mrs. E. B. Lewellen, Grand Chaplain.

Tex., Tyler—School—City soon votes on $85,000 bonds for improvements.

Tex., Waco—Hotel—C. C. McBurnett making plans. About $150,000. George Burnett Co., Cameron Bldg., Arch.

Tex., Waxahachie—High School—City voted $120,000 bonds. Noted Sept. 7.

Colo., Pueblo—Auditorium and City Hall—Council receiving bids Dec. 1. About $220,000. W. W. Stickney, 89 Opera Blk., Arch. Noted Oct. 19.

N. M., Clovis—High School—City making plans. About $75,000. Noted Oct. 12.

Idaho, Twin Falls—(Official)—City to vote Nov. 28 on $40,000 bonds for building. Noted Oct. 12.

Calif., Los Angeles—Arcade—J. Langeman and Estes & Arnold, 1105 Trust and Savings Bldg., making preliminary plans, 322x40-ft. on Broadway and Hill St. About $50 000.

Calif., Modesto—High School—City voted $135,000 bonds. Noted Sept. 28.

Calif., Richmond—Herbert F. Brown, 2232 Macdonald Ave. plans 3-story brick and steel building at 23rd St. and Macdonald Ave.

Calif., San Diego—Hospital—Sisters of Mercy plans. About $75,000.

Calif., Stockton—Orphan Home—Odd Fellows Lodge plans. About $60,000.

N. S., Halifax—School—Bd. School Comrs. soon receive bids, Morris St. About $125,000. W. J. Busch, 60 Bedford Rd., Arch. Noted June 29.

Que., Lauzon—Home—Home for Infants and Aged to rebuild. About $50,000.

Ont., Normandin—Church—Parish of Normandin making plans. About $125,000. J. P. Ouellett, 28 Famille St., Quebec.

Ont., Trenton—High School—City voted $50,000 bonds. H. Mayhew, Chmn. School Bd.

Bids In and Contracts Awarded

Maine, York Harbor—Hotel—F. D. Marshall, 120 Exchange Pl., Portland, let contract 4-story, 40x50-ft. addition to McDONALD & JOSLIN CO., 161 Devonshire St., Boston, Mass. About $120,000. Noted Sept. 28.

N. H., Nashua—Amoskeag Realty Co. let contract 3-story, 70x153-ft. building on Main St. to F. X. LAFLAME, 189 Belmont St. Noted Oct. 5.

Mass., Bourne—County Infirmary—Barnstable County rejected bids.

Mass., Haverhill—School—City let contract to JOHN M. ROCHE, 467 Primrose St. About $100,000. Noted Oct. 19.

Mass., Medway—School—City let contract to EASTERN CONSTRUCTION CO., Woonsocket, R. I.

Conn., Bristol—School—City let contract 2-story, 35x129-ft. addition to LEWIS A. MILLER, Meriden. About $43 634. Noted Sept. 28.

N. Y., Gloversville—School—Bd. Education rejected bids, 3-story, 65x120-ft. Harvey Van Voris, Clk. Bd. Education. Noted June 1.

N. J., Atlantic City—Church—Chelsea Baptist Church let contract 2-story, 65x90-ft., to FRANK J. PEDRICK, 8 South Baton Rouge Ave. About $40,000.

N. J., Jersey City—Club House—Cartaret Social Club let contract to WILLIAM ROBERTSON & SON, 15 Exchange Pl., Jersey City. About $125,000.

N. J., Woodbury—Club House—Altwood Country Club let contract, 2-story, to GEORGE W. SHAUER & SONS. Noted Oct. 19.

Penn., Connellsville—Freight Station—Pennsylvania R.R. let contract to DAVID T. RIFFLE, Pittsburgh.

Penn., Philadelphia—Carson College for Girls, Chestnut Hill, has let contract 4 buildings to JACOB MYERS SONS CO. About $350,000.

Ky., Louisville—School—Baptist Women's Union Missionary Training School let contract to ALFRED STRUCK CO. About $150,000.

Ohio, Cleveland—Hotel—Perkins Building Co. let contract, 6-story, 65x152-ft., to WILLIAM L. CAREY. About $180,000.

Ohio, Cleveland—School—Bd. Education let contract, 869 East 146th St., to JAMES H. WELLS, 401 Marshall Bldg. About $181,000.

Ohio, Kenmore—(Official)—High School—Bd. Education let contract, 2-story, to DRUMMOND-MILLER CO., Cleveland. About $78,960. Noted Oct. 5.

Ohio, Wilmington—Motion Picture House—Charles Murphy let contract to N. P. EVELAND, Miamiville. About $50,000.

Ind., Terre Haute—School—Bd. Trustees Indiana State Normal School let contract 3-story, concrete and brick, to A. W. STOOLMAN, Champaign, Ill. About $82,180. Noted Oct. 5.

Mich., St. Clair Heights—School—City let contract Kerwin and Warren St. to PIGOTT-HEALY CONSTRUCTION CO.

Mich., Romeo—Church—Methodist Episcopal Congregation let contract to E. H. CRAMER, Logansport, Ind.

Contracts To Be Let

Bids received until Nov. 6, 1916.

Bridge Approaches

Tulsa, Okla.

Sealed proposals will be received by the Board of County Commissioners of Tulsa County, Oklahoma, on Monday, November 6th, 1916, until 10 o'clock A.M., in the County Court House, for the construction of approaches to the Arkansas River Bridge No. 150.

Maps, plans, specifications and estimates may be seen at the office of the County Engineer at the Court House in Tulsa, Oklahoma. No bids will be received unless accompanied by a certified check for the sum of Ten (10) per cent. of the bid, and made payable to the Board of County Comissioners of Tulsa County, Oklahoma.

The successful bidder will be required to give bond for the faithful completion of the work. The Board of County Commissioners reserve the right to reject any and all bids.

By order of the Board of County Commissioners, this 2nd day of October, 1916.

LEWIS CLINE, County Clerk.

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Sub-Contract Wanted

If you are looking for just the right kind of a sub-contractor for your Southern work, write us. Roads, bridges, etc. Must fill in our dull season. W655—Eng. News.

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U. S. ENGINEER OFFICE, Room 707, Army Building, 39 Whitehall Street, New York, N. Y.—Sealed proposals will be received here until 12 M., Nov. 28, 1916, and then opened, for dredging in Newtown Creek, N. Y. Further information on application.

LOCKKEEPERS' HOUSES—U. S. Engineer Office, Wheeling, W. Va.—Sealed proposals will be received here until 11 a.m. (Eastern time), November 28, 1916, and then opened, for constructing two two-story, fourteen-room double houses, or four bungalow type houses, at Dam No. 21, Ohio River. Information on application.

U. S. ENGINEER OFFICE, First District, New York City, Room 710 Army Building, October 25, 1916—Sealed proposals for Dredging in Hudson River Channel, N. Y., will be received here until 12 M., November 24, 1916, and then opened. Further information on application.

U. S. ENGINEER OFFICE, Louisville, Ky.—Sealed proposals for furnishing and erecting upper and lower mitering lock gates of two leaves each for Lock No. 41, Ohio River, will be received here until 12 noon, central time, November 6, 1916, and then opened. Information on application.

OFFICE OF THE COMMISSIONERS D. C., November 1, 1916.—Sealed Proposals will be received at this office, Room 509 District Building, until 2 o'clock P.M. on November 28, 1916, for the construction of Sewers in the District of Columbia, involving the construction of approximately 8,200 linear feet of masonry sewers, 4′ 6″ span. Forms of proposals, specifications and necessary information may be obtained from the Chief Clerk, Engineer Department, Room 427 District Building, Washington, D. C. OLIVER P. NEWMAN, LOUIS BROWNLOW, CHARLES W. KUTZ, Commissioners, D. C.

Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

New Jersey—Public Service Railway Co. granted permission by Bd. Wks. to build new tracks on Frelinghuysen Ave., Newark. R. E. Danforth, Pub. Ser. Bldg., Newark, Gen. Mgr.

Pennsylvania—L. A. Kellich, Philadelphia, interested in electric railway from Doylestown to Harrisburg.

Pennsylvania—Ardmore & Lianerch St. Railway Co. plans to double-track line from Ardmore County line to Oakmont. H. H. Aikens, 610 Commercial Trust Bldg., Philadelphia, Vice-Pres.

Pennsylvania—Montgomery Transit Co., Norristown, controlled by Lehigh Valley Transit Co., plans extension from Norristown to Souderton. H. R. Fehr, Allentown, Gen. Mgr.

Pennsylvania—Pennsylvania R.R. plans to improve and extend Reed St. freight yards, Philadelphia. About $50,000. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Pennsylvania — Pennsylvania R.R. plans to double-track line from Reading to Pottsville, about 35 mi. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Pennsylvania—Pennsylvania R.R. plans new line from Burgettstown up Raccoon Valley to connect with new bridge across Ohio River between Vanport and Industry. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Pennsylvania—Perkiomen Valley Traction Co. granted permission by Pub. Ser. Comn., Collegeville, for line from Collegeville to Green Lane. J. L. Wolcott, Dover, Del., Pres. Noted Mar. 16.

Pennsylvania—Schuylkill Railway Co. making surveys for line from Mahanoy City to Tamaqua, about 14 mi. W. S. Leib, Pottsville, Gen Mgr.

West Virginia—Kanawha & Michigan Ry. plans to extend line from Blakely up Gulley River, about 50 mi. A. N. Lyon, Charlestown, Gen. Supt.

West Virginia—Morgantown Interurban Railway Co. plans line from Morgantown, W. Va., to Port Marion, Penn., about 20 mi., $300,000. Address J. McDermott, Price Bldg., Morgantown.

North Carolina—Linville River Railway Co. making surveys for line from Shulls Mills to Boone, about 6 or 8 mi. G. W. Hardin, Johnson City, Tenn., Vice-Pres. and Supt.

Alabama—Mobile, Volanta & Pensacola R.R., formerly Mobile & Baldwin County R.R., soon lets contract for about 20 mi. rails for proposed new line east from Volanta, Ala., to Pensacola, Fla., 40 mi. M. H. Miller, Volanta, Gen. Mgr.

Kentucky — Cumberland & Manchester R.R. plans extension from Manchester to Beattyville. M. E. S. Posey, Barbourville, Ch. Engr.

Ohio—Youngstown & Suburban Railway Co. plans line from Columbiana to East Palestine to connect with Butler, Harmony and New Castle Line. A. W. Hartford, East Palestine, Mgr.

Indiana—Southern Ry. plans new route through New Albany. B. Herman, Washington, D. C., Ch. Engr.

Illinois—Chicago Surface Lines, Chicago, plan extension to Hegewisch, about 2½ mi. H. V. Fleming, 105 South La Salle St., Chicago, Ch. Engr.

Illinois—Mississippi Valley Railroad and Navigation Co., recently incorporated, plans line from Danville to Metropolis and Chester. J. C. Curtis, Huntington, interested.

Illinois—Illinois Traction System granted permission by Council, Litchfield, to reroute tracks leading into city from Mt. Olive. H. G. Vance, Peoria, Pur. Agt.

Iowa—Boone Commercial Club, Boone, interested in railway from Woodward to Boone.

Iowa—Kewanee & Eastern Electric Ry. plans line from point opposite Muscatine, Iowa, to Streator, Ill., about 120 mi. C. G. Lampman, Cedar Rapids, interested.

Kansas—Colorado, Kansas & Oklahoma R.R. making surveys for line from Scott City, Kan., to Forgan, Okla. B. L. Allen, Russell Springs, Okla., Ch. Engr. Noted June 15.

Missouri—Missouri Pacific Iron Mountain R.R., St. Louis, plans to spend about $1,200,000 for new equipment and improvements. E. A. Hadley, St. Louis, Ch. Engr.

Arkansas—Railroad Surveying Corps, Rogers, making surveys for line from Rogers east to Monte Ne, about 5 mi.

Texas—El Paso Electric Co., El Paso, plans to extend line to new high school on Mesa. Stone & Webster Engineering Corp., Milk St., Boston, Gen. Mgr.

Texas—Houston, Richmond & Western Traction Co. plans line from Houston to San Antonio, about 190 mi. W. A. Reinhardt, Houston, Vice-Pres. and Gen. Mgr.

Oregon—City, Klamath Falls, election Nov. 14 to vote on $300,000 bonds for Strahorn Central Region R.R. from Klamath Falls to Sprague River. Keeler Bros., Denver, interested. Noted Sept. 14

Oregon—Smith-Powers Logging Co. plans to extend line from Myrtle Point to Bunker Hill.

California—F. Cleveland, S. Jess and C. W. Gates, Hanford, interested in railway from Corcoran to Los Posos ranch, about 2 mi.

California—Oakland Traction Co., controlled by Oakland Terminal Rys., plans to extend line from Richmond up Grand Cañon Park to San Pablo Cañon, about 6 mi. W. R. Alberger, Oakland, Gen. Mgr.

Ontario—Province will hold election Jan. 1 to authorize construction radial railway between Port Credit and Bridgeburg. About $9,360,000.

Ontario—(Press)—City Council, Hamilton, and Hydro Comn., plan electric incline railway on Sherman Ave. About $200,000.

LIGHT, HEAT AND POWER

Proposed Work

Penn., Philadelphia—A. L. Fretz & Son plan power house at plant on Wilde St.

Md., St. Michaels—City plans to install electric-lighting system.

Tenn., Nashville—St. Thomas Hospital plans brick power house. About $22,000.

Ky., Uniontown—Kentucky Utilities Co. purchased lighting plant, and will build transmission line from Uniontown to Morganfield. Harry Reid, Lexington, Pres.

Ohio, Cleveland—G. C. Kuhlman Car Co. granted permit to improve boiler house, 760 East 140th St. About $10,000.

Ohio, Cleveland—National Artificial Silk Co. granted permit for power house, 9801 Wolford Rd. About $55,000.

Ind., Anderson—Bd. Pub. Wks. plans to improve electric-light plant. About $50,000.

Ill., Gibson City—See item under "Water-Works."

Ill., Mt. Sterling—City votes Nov. 15 on bonds for electric-light plant. Noted July 13.

Wis., Balsom Lake—Dahlberg & Son will install electric-light system for city.

Wis., Gresham—Gresham Electric Light and Power Co. granted franchise for electric light and power plant. L. D. Laudenstein, Village Clk.

Wis., Oshkosh—Oshkosh Gas Light Co. plans addition to plant. P. Sawyer, Pres.

Wis., Stevens Point—Wisconsin Valley Electric Co., Wausau, purchased local electric and gas plant and will extend power lines to city.

Iowa, Centerville—Centerville Light and Traction Co. plans transmission line from Centerville to Allerton.

Iowa, What Cheer—Burlington Railway and Light Co. granted 25-year franchise to supply city with electricity.

Minn., Hibbing—Village receiving bids Nov. 21 for 1-story power station. About $200,000. Tyrie & Chapman, Auditorium Bldg., Minneapolis, Arch. Noted Oct. 26.

Minn., St. Paul—St. Paul Gas Light Co. making plans for pumping and boiler house. E. L. Masqueray, 595 Endicott Bldg., Arch.

Kan., Buffalo—City voted $15,000 electric-light plant bonds

Kan., Independence—Western States Port Cement Co. making plans for rebuilding power plant destroyed by fire. About $100,000. C. B. McVay, Mgr. Noted Oct. 26.

Kan., Spring Hill—City voted $4,000 bonds for electric-light plant. Noted Oct. 19.

S. D., Bruce—City plans election to vote on $7,000 bonds for electric-lighting system.

Mo., Brunswick—Brunswick Light and Water Co. plans to improve lighting system. L. A. Nickel, Mgr.

Mo., Pleasant Hill—L. K. Green & Sons, owners local electric-light plant, plan to rebuild plant, also add power house.

Mo., St. Louis—City plans electric-light plant. Bd. Aldermen passed bill authorizing expenditure of $12,500 for preliminary survey to determine advisability of installing same.

Ark., Dumas—Impvt. Dist. No. 2 receiving bids Nov. 28 for electric-light plant. About $25,000. H. W. Wright, Engr.

Okla., Mountain Park—City votes Nov. 14 on $4,500 electric-light bonds.

Idaho, Coeur d'Alene—Central Heating and Lighting Co. plans expenditure of $100,000 for heating and power plant.

Ariz., Phoenix—City deefated $600,000 bonds for electric-light plant. J. B. Girard, City Engr. Noted Oct. 19.

Wash., Bremerton—E. L. Blaine, Seattle, granted franchise for gas plant and distribution system. About $150,000

Calif., Alameda—Union Iron Works, San Francisco, made plans for power house at shipbuilding plant at Alameda. About $22,500. Noted Oct. 26.

Bids In and Contracts Awarded

Ind., La Porte—La Porte County let contract electric-light and power plant to LARSON-DANIELSON CONSTRUCTION CO., La Porte, about $16,200.

Minn., Buhl—City let contract extending electric-light plant to M. BOYLAN, Virginia, about $32,000.

BRIDGES

Proposed Work

Mass., Lowell—Council plans bridge over Boston & Maine tracks on Lundberg St. Stephen Kearney, City Engr.

Mass., South Boston—(Boston post office)—New York, New Haven & Hartford R.R. plans 11 bridges in South Boston. E. Gagel, New Haven, Conn., Ch. Engr.

N. Y., Cortland—Cortland County plans bridge on Albany Post Rd. Charles McDonald, Jr., Realty Bldg., White Plains, Engr.

N. Y., New York—(Manhattan)— Borough receiving bids Nov. 16 for improving southerly portion of Manhattan Bridge. J. H. Kracke, Comr. of Bridges.

N. J., Cape May—(Official)—Comrs. Cape May County receiving bids Dec. 5 for 3 bridges on Ocean City-Corson's Inlet Rd. over Main Channel, Middle Thoroughfare and Weakfish Creek. Noted Oct. 19.

Penn., Ardmore—Pennsylvania R.R. making plans for bridge. About $6,000. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Penn., Bethlehem—Northampton County receiving bids Nov. 13 for repairing inter-county bridge No. 87 over Monocacy Creek. Noted Aug. 10.

Penn., Knoxville—(Official)—Pub. Grounds and Bldg.'s Bd. retained G. A. Flink, Consult. Engr., Harrisburg, to make plans for bridge. About $14,000.

Penn., Lancaster—(Official)—Philadelphia & Reading Ry. does not plan bridge on College Ave. as stated in issue of Oct. 19. S. T. Wagner, 522 Reading Terminal, Philadelphia, Ch. Engr.

Penn., Nelson—(Official)—Pub. Grounds and Bldg.'s Bd. retained G. A. Flink, Consult. Engr., Harrisburg, to make plans for bridge. About $21,000.

Penn., New Castle—Lawrence County Comrs. receiving bids Jan. 1 for bridge over Neshannock Creek on Gardner Ave. About $35,000. T. A. Gilkey, Engr. Noted Apr. 13.

Penn., Philadelphia—City plans bascule bridge over Schuylkill River on South St.

Penn., Waynesburg—Supvrs. Center and Franklin Townships, Green County, receiving bids Nov. 18 for bridge on road from Oak Forest to Waynesburg. Address County Clk., Waynesburg.

Va., Petersburg—City appropriated $50,000 bonds for viaduct. R. D. Budd, City Engr.

Va., Warm Springs—See item under "Streets and Roads."

S. C., Charleston—City plans rein.-con. bridge over Goose Creek. J. H. Dingle, Engr.

Ga., Eatonton—Bd. Comrs. receiving bids Nov. 21 for 160-ft. truss span bridge with 40-ft. steel approach and rein.-con. piers and abutments across Murder Creek, at Freeman's Mills. C. B. Alford, Chn.

Ga., Vienna—Dooly County, Vienna, and Sumpter County, Americus, receiving bids Dec. 11 for bridge over Flint River at Murray's Ferry. Address County Clk., Vienna. Noted Aug. 17.

Ala., Birmingham—Jefferson County Comrs. plan steel bridge over Black River. Address County Clk., Birmingham.

Ala., Birmingham—Jefferson County plans viaduct on 21st St. Address County Clk., Birmingham.

La., De Ridder—City receiving bids Nov. 22 for sale of $500,000 bridge bonds. P. L. Ferguson, Clk.

Tenn., Knoxville—City authorized $150,000 bond issue for viaduct across railway tracks on State St. Noted July 13. J. B. McCalla, City Engr.

Ohio, Cleveland—Bd. Comrs. Cuyahoga County receiving bids Nov. 11 for bridge work, per Report No. 3967. E. G. Krause, Cleveland, Clk.

Bridges (Continued)

Ohio, Cleveland—Bd. Comrs., Cuyahoga County, receiving bids Nov. 11 for bridge work, per Report No. 3750. E. G. Krause, Cleveland, Clk.

Ohio, Dayton—Montgomery County receiving bids Nov. 21 for bridge No. 174, Jefferson Township. Address County Clk., Dayton.

Ohio, Franklin—Warren County Comrs., Lebanon, approved plans for bridge across Miami and Erie Canal on 6th St. Address County Clk., Lebanon.

Ohio, Jefferson—Ashtabula County, receiving bids Nov. 13 for bridge over Ashtabula Creek. Address County Clk., Jefferson.

Ohio, Steubenville—Pittsburgh, Chicago, Cincinnati & St. Louis Railway Co., Pennsylvania Lines West of Pittsburgh, Southwest System, plans bridge on 6th Ave. W. C. Cushing, Pittsburgh, Ch. Engr.

Ohio, Warren—Trumbull County making plans for rein.-con. bridge. About $9,100. R. E. Hempel, Court House, Engr.

Ohio, Zanesville—Muskingum County Comrs. receiving bids Nov. 13 for bridge work. Address County Clk., Zanesville. Noted May 11.

Ill., Clinton—De Witt County plans 128-ft. steel bridge. About $9,000. Clifford Older, Springfield, Engr.

Ill., Ottawa—City plans bridge over Fox River near Glen Park. About $15,000.

Ill., Pittsfield—(Official)—Pike County receiving bids Nov. 13 for bridge work in Atlas Township. H. H. Hardy, County Supt. Highways.

Ill., Rockton—Winnebago County, Rockford, plans bridge over Sugar Creek, Harrison and Shirland Townships. Address County Clk., Rockford.

Wis., Ft. Atkinson—City plans concrete bridge over Rock River. About $40,000.

Wis., La Crosse—City made plans for bridge on Clinton St. A. A. Bentley, Mayor.

Iowa, Des Moines—Polk County plans highway viaduct. Address County Clk., Des Moines.

Iowa, Fairfield—State Highway Comn. plans bridge over Skunk River. D. L. Teal, Jefferson, County Engr.

Minn., Albert Lea—Town Bd. plans bridge across south arm of Fountain Lake.

Minn., Royalton—Morrison County Comrs. plan bridge over Mississippi River. Address County Clk., Little Falls.

Kan., Olathe—Johnson County receiving bids Nov. 11 for steel truss bridge. Address County Clk., Olathe.

Kan., Seneca—Nemaha County soon receives bids for rein.-con. bridge over Nemaha River. About $8,000. W. L. Kauffman, Seneca, Clk.

Neb., North Platte—Lincoln County plans rein.-con. bridge over South Platte River. About $45,000. Address County Clk., North Platte.

Neb., Springfield—Johnson County receiving bids Nov. 11 for steel bridge. About $8,000. Address County Clk., Tecumseh.

Mo., Kansas City—Bd. Pub. Wks. made plans for rein.-con. bridge across Brush Creek, on Elmwood Ave. About $11,000. Curtis Hill, City Engr.

Ark., Ashdown—Little River County Comrs. authorized appropriation for bridge across Little River at Morris Ferry. Address County Clk., Ashdown.

Ark., Rison—Cleveland County Comrs. plan bridge over Saline River. Address County Clk., Rison.

Ark., Texarkana—Bd. Pub. Affairs receiving bids Nov. 11 for rein.-con. bridge over Dix Creek on Laurel St.

Okla., Canadian—City making plans for bridge over South Canadian River between Canadian and Eufaula, on Jefferson Highway. About $12,000.

Okla., Pauls Valley—Garvin County soon to receive bids for bridge and road work. Address County Clk., Pauls Valley.

Okla., Pond Creek—Chicago, Rock Island & Pacific Railway Co. plans bridge across Salt Creek. About $150,000. C. A. Morse, Chicago, Ch. Engr.

Okla., Tulsa—City and Tulsa St. Railway Co. soon receives bids for repairing 3rd St. viaduct. E. C. Hughes, City Engr. Noted Oct. 12.

Wash., Bellingham—See item under "Streets and Roads."

Ore., Coquille—Coos County receiving bids Nov. 15 for bridge over south fork of Coquille River. R. R. Watson, Coquille, County Clk.

Ore., Oregon City—Council plans viaduct over 14th St.

Calif., Merced—Merced County receiving bids Nov. 14 for rein.-con. bridges. Address County Clk., Merced.

Calif., Willows—County receiving bids Nov. 14 for 3 rein.-con. bridges. W. H. Sale, Willows, Clk.

Bids In and Contracts Awarded

Penn., Media—Delaware County let contract concrete bridge over Rocky Run, Middletown Township to B. D. WRIGHT, Chester; concrete bridge over Stony Run, Ridley Township, to ERNEST PALMER, Wallingford.

Penn., Philadelphia—Bd. Pub. Wks. let contract improving 40th St. bridge to W. J. MUNDY, 228 South Alder St. About $6,522.

Penn., Philadelphia—Dept. Pub. Wks. let contract to M. & J. B. McHUGH, Commercial Trust Bldg., for work on Green Lane Bridge, at $8,000, and Erie Ave. Bridge over Pennsylvania & Reading R.R. tracks, at $18,700.

Penn., Pottsville—City let contract bridge over Schuylkill River to J. DONAHOE, Mahanoy City.

Penn., South Ringtown—Philadelphia & Reading R.R. let contract rein.-con. bridge to P. J. CAMPION, Mahanoy City.

Penn., Warren—City let contract bridge across Allegheny River to NATIONAL CONCRETE CO., Indianapolis. About $120,000.

W. Va., Charleston—Kanawha County let contract rein.-con. bridge to B. C. COIT, 2448 Washington St., Charleston, $6,800.

Ga., Folkston—Charlton County Comrs. let contract concrete bridge across St. Marys River to MIZELL & CHADWICK, Jacksonville. Noted Oct. 5.

Fla., Jacksonville—Duval County Comrs. let contract improving Panama Bridge over Trout Creek to J. E. IWANOSKI.

Tenn., Jamestown—Fentress County let contract steel bridge across East Fork of Obeds River to NASHVILLE BRIDGE CO., Nashville. Noted Sept. 28.

Ohio, Dayton—(Official)—Montgomery County let contract steel superstructure for Bridge No. 76, one 240-ft. span and 18-ft. rein.-con. roadway to CENTRAL STATES BRIDGE CO., Indianapolis, Ind., $26,880. Noted Oct. 19.

Ohio, Millersport—Fairfield County Comrs. let contract bridge over Ohio Canal to L. BROWN, Lancaster.

Ohio, Newark—Licking County Comrs. let contract bridge No. 12 to B. D. PATTERSON, Vanetta.

Ohio, Xenia—Green County Comrs. let contract steel truss bridge over Anderson Fork to CHAMPION BRIDGE CO., Wilmington. About $5,600.

Ind., South Bend—St. Joseph County Comrs. let contract Kamm Bridge in Harris and Penn Townships to KNOBLOCK & VANSKYHAWK, Bremen.

Mich., Benton—(Official)—City let contract on bids for viaduct on Britain Ave. to J. M. ALMENDINGER, Benton Harbor. Noted Nov. 2.

Ill., Weston—City let contract 4 bridges at Yates Drainage Dist. to PORTER & McCULLY, Mackinaw, $10,690.

Kan., Topeka—(Official)—Shawnee County let contract rein.-con. bridges over Indian Vassar and Deer Creeks to ALLEN & FULTON, $4,753; LEAVENWORTH BRIDGE CO., about $8,000. Noted Oct. 5.

Tex., League City—(Official)—Galveston County Comrs. rejected bids for Clear Creek bridge. R. M. Sias, Galveston, County Engr. Noted Oct. 26.

Wash., Seattle—Bd. Pub. Wks. let contract steel viaduct approach to Fremont Ave. Bridge to MINNEAPOLIS STEEL AND MACHINERY CO., Spokane, $12,220. Noted Oct. 19.

Wash., Spokane—Bd. Pub. Wks. let contract repairing concrete bridge over Spokane Rivera on Washington St. to C. L. GRAVES, 2709 Sinto St., $17,740. Noted Oct. 19.

Wash., Spokane—(Official)—City let contract bridge to OLSON & JOHNSON CO., Missoula, Mont. About $32,080.

Wash., North Yakima—City let contract removing spillway and building concrete bridge to YAKIMA CONSTRUCTION CO., North Yakima, $4,094.

Wash., Walla Walla—City let contract Flathers Bridge over Touchet River to CHARLES HUBER, $9,747.

Calif., Auburn—City let contract 2 concrete bridges over Yankee Slough to HENRY C. NOLTE. About $6,000.

Calif., Barstow—(Official)—San Bernardino County rejected bids for repairing and enlarging bridge over Mojave River at Barstow, also for system of pile protection work. Work to be done by day labor. Noted Oct. 12.

WATER-WORKS

Proposed Work

Mass., Sturbridge—City plans water system.

Mass., Worcester—City plans filter plant on Wiser Ave. About $750,000. George M. Batchelder, Supt.

N. Y., Glens Falls—Plans submitted to State for approval for 2 reservoirs on upper Hudson watershed, dam at Conklingville on Sacandaga River, and one on Schroon River. About $7,000,000. E. Weller Smith, Supt.

N. Y., Herkimer—(Official)—Village voted $350,000 bonds for new gravity water supply. Municipal Comn. to secure supply of 3,000,000 gal. per day from Mill Creek near Groavesville. Conduit of 14 and 16 in. c.-i. pipe to be used, length of each size of pipe being about 50,000 ft. New distribution reservoir, gate-house and extensions to village distribution system will also be built. Pipe line to be built by force account, reservoir by contract. Work will start in spring, under direction of Herkimer Municipal Comn., E. W. Sluyter, Supt. Robert E. Horton, Consult. Engr. Noted Oct. 5.

N. Y., New York—(Official)—Bd. Water Supply, Municipal Bldg., receives bids in spring for tunnel about 18 mi. long from point near Prattsville on Scholarie Creek, Greene County, to point on Esopus Creek, town of Shandaken, Ulster County through one main ranges Catskill Mts. G. Featherstone, Secy. (See adv.)

N. Y., Sonyea—P. J. Lang, Pres. Bd. Mgrs., Craig Colony for Epileptics, receiving bids Nov. 21 for additions and improving water system at Colony.

N. Y., Thiells—Bd. Mgrs., Letchworth Village, received no bids for alterations to storage reservoir. F. A. Vanderlip, Pres. Bd. Noted Oct. 19.

N. J., Newark—North Jersey Dist. Water Supply Comn. making plans to divert waters of Wanque River to provide additional supply for Newark and Paterson. M. Sherrard, City Engr. Noted Sept. 21.

Penn., Reading—City making plans for 40,000,000-gal. reservoir. About $40,000. B. Frank Ruth, Supt.

Penn., Seward—City plans reservoir and 12,000 ft. pipe. O. P. Thomas, Leader Bldg., Johnstown, Engr.

Penn., Sunbury—City plans water system.

N. C., Beaufort—Town receiving bids Nov. 22 for sale of $100,000 bonds for water and sewer systems and street improvements. Noted Sept. 7.

N. C., Tarboro—City plans water mains. J. H. Jococks, City Treas.

Tenn., Benton—City voted $10,000 bonds for water and sewer systems. Noted Oct. 12.

Tenn., Knoxville—City voted $235,000 bonds for improving and extending water system. C. H. Anderson, Supt. Cincinnati Water Dept., Cincinnati, in charge. Noted Sept. 28.

Tenn., Nashville—City plans pumping station. About $1,750,000.

Ky., Winchester—City made plans for water system. Edgar B. Kay, 305 Colonial Bldg., Winchester, Consult. Engr. Noted Aug. 24.

Ohio, Canal—Winchester—City plans to issue bonds for improving water system. William M. Lane, Mayor.

Ohio, Cleveland—City soon to let contract for rebuilding clear-water basin of Division Ave. filter plant. About $100,000. Noted Sept. 28.

Ohio, Lancaster—City plans water main in portion of King Ave. John M. King, Supt.

Ohio, Marietta—City plans extending water mains. W. M. Morse, Supt.

Ohio, Newton Falls—Water Wks. Comrs. plan to spend $7,000 for equipment for pumping station.

Ohio, Ravenna—City making plans for 2,000,000-gal. filter plant. About $125,000. Noted Oct. 26.

Ohio, St. Bernard—City to receive bids in February for extending water system and water-softening plant. About $90,000. E. C. Heller, Supt. Noted Oct. 19.

Ohio, Shaker Heights—(Cleveland post office)—Village receiving bids Nov. 21 for water mains in portion of North Moreland Blvd. Carl A. Palmer, Cleveland, Clk.

Ohio, Westerville—City soon to let contract for 600,000-gal. tank. About $30,000. F. F. Kidwell, Supt.

Ohio, Wooster—City making plans for water system. About $73,694. Noted Oct. 19.

Ind., Bicknell—Bicknell Water Co. plans water system. About $100,000.

Ind., Michigan City—Bd. Pub. Wks. receiving bids Nov. 28 for 2 tube boilers in boiler room city water-works. A. W. Frehse, Supt.

Mich., Escanaba—City plans voting on $400,000 water bonds. R. P. Roberts, Supt.

Ill., Gibson City—City voted $29,000 bonds for water system and electric-light plant. Noted Oct. 5.

Ill., Rock Island—City soon receives bids for 3,000,000-gal. pump at reservoir. R. W. Sharpe, Supt. Noted Nov. 2.

Ill., Waukegan—City plans installing boiler for pumping station. W. J. Allen, Supt.

Wis., Madison—(Official)—City receiving bids Nov. 21 for enlarging pumping station. Work includes 8,000,000-gal. pumping engine, horizontal cross compound, 3 air compressors and necessary air tubing and foot pieces for equipping 6 deep wells with air equipment, new stack and furnaces to be installed in two 200-hp. Sterling boilers. Meade & Seastone, Madison, Consult. Engr. Noted Oct. 26.

Wis., Marshfield—City soon to receive bids for improving water system. T. M. Young, Supt.

Wis., West Allis—Bd. Pub. Wks. soon receives bids for water mains in portion of 68th St. F. C. Canning, Supt.

Iowa, Dubuque—City plans water mains on several streets. B. F. Stedman, Supt.

Iowa, Soldier—City soon votes on bonds for extending water system.

Minn., Albert Lea—City soon receives bids for improving water system. C. J. Dudley, City Clk.

Minn., Rochester—City made plans for water system. About $35,000. C. L. Pillsbury Co., Minneapolis, Engr. Noted Sept. 14.

Kan., Argonia—(Official)—City receiving bids Nov. 15 for 50,000-gal. tank on 90-ft. tower, 1,280 ft. 6-in. c.-i. pipe, 13,900 ft. 4-in. and 1,400 ft. 2-in. galvanized iron pipe. Twenty-four 4-in. hydrants, 28 gate valves and boxes, two 100-g.p.m. deep-well pumps. W. B. Rollins & Co., 439 Railway Exchange Bldg., Kansas City, Mo., Engr. Noted Oct. 26.

Kan., Geuda Springs—City receiving bids Nov. 20 for water system. About $17,000. Noted Oct. 19.

Sewers (Continued)

Kan., Lawrence—City retained Black & Veatch, Engr., Inter-State Bldg., Kansas City, Mo., to make plans for improving water system. About $200,000. Noted July 6.

Kan., Munden—City making plans for water system. Stevens & Stiles, 220 Commerce Bldg., Kansas City, Mo., Engr.

Kan., Sylvan Grove—City plans water system. About $20,000.

Kan., Tonganoxie—(Official)—City receives bids about Jan. 1 for water system. Black & Veatch, Inter-State Bldg., Kansas City, Mo., Engr. Noted Oct. 26.

Neb., Pender—City voted bonds for improving and extending water system. H. Brandt, Supt. Noted Nov. 2.

N. D., Marmarth—City sold $15,000 water bonds. Noted Mar. 2.

Wyo., Worland—(Official)—City sold $25,000 water-works bonds. Denton Engineering Co., Worland, Engr.

Mon., Joliet—City sold $22,000 water bonds. Noted Sept. 21.

Mo., Joplin—Council plans filter plant at water system on Shoals Creek. About $50,000. H. R. McLeeler, Supt. Noted June 15.

Ark., Walnut Ridge—Sewer and Water Dist. No. 1 rejected bids for water and sewer system. New bids. W. C. Johnson, Act. Recdr. Noted Oct. 12.

Tex., Hamlin—City receiving bids Nov. 15 for sale of $35,000 bonds for reservoir. O. M. Smith, Supt.

Tex., Mission—Mission Light and Water Co. plans expenditure of $20,000 for improving water system.

Colo., Boulder—Dam—City lets contract about January for rock work on dam at Silver Lake, also for 24-in. c.-i. pipe line from Lakewood to Silver Lake, about 5½ mi. J. A. Weber, Chn. Water Com.

Idaho, Twin Falls—Louis C. Kelsey, Selling Bldg., Portland, Ore., made preliminary plans for water system. About $300,000. Noted Oct. 26.

Wash., Seattle—Bd. Pub. Wks. approved plans for water mains in Shilshol Ave. About $26,000. L. B. Youngs, Supt.

Ore., McMinnville—City plans extending water system to Haskins Creek. Noted Sept. 21.

Calif., Bakersfield—City defeated $175,000 water bonds. Noted Aug. 31.

Calif., Brawley—City made preliminary plans for pipe line, concrete basin, high-pressure line, etc. Election soon to vote on $20,000 bonds.

Calif., Corcoran—State Railroad Comn. granted permission to issue $10,000 bonds for 50,000-gal. tank and extending water mains. W. R. Mayer, Supt.

Calif., Merced—Crocker-Huffman Land and Water Co. soon lets contract for 300,000-gal. steel tank and additional pumping station. H. A. Lage, Supt. Noted Nov. 2.

Calif., San Rafael—Marin County plans water system. About $3,000,000. Address County Clk., San Rafael.

Que., Levis—(Official)—City to receive bids some time in April for filter system, also concrete reservoir, 1,500,000-gal. capacity. About $30,000. Noted Nov. 2.

N. B., St. John—Council soon to let contract for 3,000-ft. c.-i. pipe. About $30,000. David B. Doig, Supt. Noted Nov. 2.

Bids In and Contracts Awarded

N. Y., Batavia—City let contract superstructure filter plant to J. GLADE & SON, Batavia, $6,490. Noted Oct. 19.

N. Y., New York—(Official)—Dept. Water, Gas and Electricity received low bids for furnishing, delivering, unloading, stacking and storing c.-i. pipe, special and valve-box castings, valves and double nozzle fire hydrants from R. D. Wood & Co., $22,726; John Fox & Co., 253 Broadway, $23,164.

W. Va., Sistersville—City let contract 2,000,000-gal. filter plant to DAYTON & FRANCIS, Martinsville. About $30,000. Noted Aug. 31.

Fla., Jacksonville—Water Comn. received low bids for relining water-works aërating basin from Southern Construction Co., $16,640; F. W. Long & Co., $17,140.

Tenn., Copperhill—City let contract water system to A. C. BROOKS, Birmingham, Ala. A 2,000,000-gal. concrete reservoir to be built by day labor. Noted Oct. 12.

Ohio, Defiance—(Official)—City let contract water system to BREED, ELIOTT & HARRISON, Cincinnati. About $129,512. Noted Oct. 19.

Mich., Lansing—Bd. Water and Electric Light Comrs. received low bids for 10,000,000-gal. pumping apparatus for water system from Allis-Chalmers Co., $28,500; Epping-Carpenter Pump Co., $32,667; Worthington Pump and Machinery Corp., $25,000. Noted Aug. 10.

Ill., East Dubuque—City let contract extending water mains to J. R. DANIELS, Dubuque.

Ill., Evanston—Comr. Pub. Wks. let contract water system and pumping station to DE LAVAL STEAM TURBINE CO., Trenton, N. J. Noted Aug. 10.

Minn., Hancock—City let contract water mains to JOHN ERICKSON & SON.

Minn., Lake Crystal—(Official)—City rejected bids for water system. Noted Oct. 19.

Minn., Rochester—City let contract reservoir to WILLIAMS & FELLER, Rochester. About $12,436.

Neb., Sutton—City let contract centrifugal pump to HYDRAULIC ENGINEERING AND MACHINERY CO., 219 First National Bank Bldg., Lincoln.

Tex., Barstow—City let contract water and sewer system in Barstow and Pecos to L. LA SALLE, El Paso. Noted Apr. 6 and Aug. 10.

Tex., Dallas—City Comn. let contract for c.-i. pipe to AMERICAN CAST IRON PIPE CO.

Tex., Loraine—City let contract concrete reservoir and 4,000-ft. water mains to J. W. MOORE, Abilene.

Idaho, Pocatello—City let contract 25,000 ft. 12-in. woodstave pipe line from Pocatello to Gibson Jack Creek to R. M. BARDSEN & CO., Pocatello. About $26,478. Noted Oct. 12.

N. S., New Glasgow—City let contracts extending water system as follows: 2,400 ft. 12- and 16-in. pipe and 1,000 ft. 10-in. gravity water system to GAMMON & WEIR, New Glasgow, supplying pipe to CANADA IRON FOUNDRIES. Noted Sept. 28.

SEWERS

Proposed Work

N. Y., New York—(Brooklyn)—L. H. Pounds, Boro. Pres., Room 2, Borough Hall, receiving bids Nov. 15 for sewers portion Woodbine St. and Ave. Q.

N. Y., New York—(Manhattan)—M. M. Marks, Boro. Pres., Room 2032, Municipal Bldg., receiving bids Nov. 15 for sewer and appurtenances in portion East 76th St. and receiving basin and appurtenances northeast corner Ave. B and 20th St. and 4 other points.

N. Y., Watertown—City making plans for sewers in Howk, Newell and Lepper St. E. W. Sayles, City Engr.

N. J., Glen Ridge—City receiving bids Nov. 13 for 8-in. sewer and appurtenances in Llewellyn Ave. J. A. Brown, City Clk.

N. J., Plainfield—Council receiving bids Nov. 20 for storm sewers. J. J. Carroll, City Clk.

N. J., Rutherford—Union Township Comrs. to issue $200,000 bonds for sewer system and disposal plant. R. M. Watson, City Engr.

N. J., Union—Council passed ordinance to issue $200,000 sewer bonds. J. E. Bowe, Jr., City Engr.

Penn., Titusville—Council passed ordinance for sewer in Fertig St. H. A. Holsetin, City Engr.

N. C., Beaufort—See item under "Water-Works." Noted Sept. 7.

Ga., Cairo—City votes Nov. 28 on $28,000 bonds for sewer system. Noted Oct. 5.

Tenn., Benton—See item under "Water-Works." Noted Oct. 12.

Ohio, Amherst—Council plans sanitary sewer in West Martin Ave. and on West Side.

Ohio, East Liverpool—City passed ordinance to install sanitary sewer in portion of Morton St. J. C. Kelly, City Engr.

Ohio, Fremont—Council passed resolution for 18-in. sewer in South St.

Ohio, Greenfield—Village Bd. plans sewers in Lynden Ave. About $12,000. E. M. Connor, Village Clk.

Ohio, Greenville—Bd. Pub. Ser. receiving bids Nov. 11 for storm sewers in various streets. K. H. Schmermund, Clk. Bd. Pub. Ser.

Ohio, Lancaster—Council passed resolution to improve sewers in portion of High St. Julian Griggs, City Engr.

Ohio, Lancaster—Sewer Com. recommended sewer in Cherry St. Julian Griggs, City Engr.

Ohio, Lorain—Bd. Pub. Ser. plans sanitary sewer in 12th St.

Ohio, Mansfield—Council passed ordinance for sanitary sewers in portions of Buckingham, Lida, Prospect, Lily and Harker St. J. Hazelton, City Engr.

Ohio, Marion—City receiving bids Nov. 17 for sanitary and storm sewer in portion of Farming St. H. A. Stevens, Clk.

Ohio, Marion—City passed resolution for sanitary sewer in portion of Toledo Ave. S. C. Court, Pres. Council.

Ohio, Youngstown—City passed ordinance for sewers in portions of Salt Spring, Donald and James St. and Belle Vista Ave. F. M. Lillie, City Engr.

Ind., Hammond—Bd. Pub. Wks. passed resolution for sewer system. About $40,000. Peter J. Lyons, City Engr.

Mich., Buchanan—City making plans for sewer system. Noted Oct. 26.

Mich., Pontiac—City plans sewer portion Tasmania Ave. W. J. Fisher, City Engr.

Ill., Galesburg—City plans sewer portion Hawkinson Ave. F. M. Connolly, City Engr.

Ill., Havana—Bd. Local Impvts. making plans for sewers in several streets. About $24,000. Noted Nov. 2.

Ill., Hillsboro—Local Bd. Impvts. plans sewer system.

Wis., Lake Mills—City Council voted $5,000 bonds for septic tanks.

Wis., Milwaukee—City plans extending sewer system. About $10,000.

Wis., Washburn—City voted $27,000 bonds for streets and sewers.

Wis., Waupun—City soon votes on $50,000 bonds for sewers and paving.

Iowa, Charitan—City Council plans to issue $42,000 sewer bonds.

Iowa, Des Moines—City making plans for 10-mi. sewer in Highland Park Dist. About $70,000. Karl C. Kastberg, City Engr.

Iowa, Dows—City making plans for sewer system and disposal plant. M. Tschirgi & Sons, 712 American Trust Bldg., Cedar Rapids, Engr.

Iowa, West Burlington—City retained Stevens & Stiles, 220 Commerce Bldg., Kansas City, Mo., to make plans for sanitary sewers. About $80,000.

Minn., Dawson—City plans sewer system. About $56,000.

Minn., St. Paul—Council passed ordinance for Eva and Plato St. sewers.

Kan., Baxter Springs—City plans sewer system. About $35,000.

Mo., Independence—City plans sewer system. About $200,000. H. H. Pendleton, City Engr.

Mo., Kansas City—Bd. Pub. Wks. plans sewers in Dists. Nos. 260, 320 and 444. J. A. Bermingham, City Clk.

Mo., Springfield—City to let contract in December for 6-mi. 8-, 10- and 12-in. sewers. Oscar Christman, Engr.

Ark., Walnut Ridge—See item under "Water-Works." Noted May 18.

Tex., Austin—City retained Hering & Gregory, 170 Broadway, New York, to make plans for disposal plant. About $175,000. M. C. Welborn, City Engr. Noted May 4.

Tex., Barstow—See item under "Water-Works."

Tex., Coleman—City voted to purchase sewer system, also to improve and extend. H. E. Elrod, Southwestern Life Bldg., Dallas, Consult. Engr. Noted Oct. 5.

Tex., El Pasco—City soon votes on $30,000 sewer bonds. Noted Feb. 10.

Tex., Frost—(Official)—City sold $10,500 sewer bonds. Noted Oct. 26.

Tex., Quanah—City receiving bids Nov. 15 for sewer system and disposal plant. Henry E. Elrod, 505 Interurban Bldg., Dallas, Engr. Noted Oct. 5.

Tex., Waxhachie—City sold $20,000 bonds for sewage plant. Noted Oct. 26.

Idaho, Moscow—City making plans for extending sewer system. About $42,000. Noted Oct. 26.

Utah, Richfield—City receiving bids Nov. 16 for 1,500 lin.ft. 10-in. drain, 2,000 lin.ft. of 8-in. and 1,000 lin.ft. of 6-in. E. Kreutz, Recdr.

Utah, Salt Lake City—City receiving bids Nov. 14 for pump house for main trunk sewer at 9th North and 11th West St. G. Snow, Recdr.

Calif., San Diego—City receiving bids Nov. 20 for sewer in University Heights. About $32,000. G. Cromwell, City Engr. Noted Oct. 28.

B. C., Vancouver—Bd. Pub. Wks. voted to install sewers in Hastings Townsite Dist., Panora Sect., Triumph and Albert St.

Bids In and Contracts Awarded

Conn., Hartford—(Official)—Bd. Contract and Supply received low bids for 1,995 ft. 66-in. and 73½-in. sewer in Olds Pl. and South St., from F. A. Barone, 431 Fairfield Ave., Hartford, Conn., $48,715; C. H. Slocomb & Co., $50,022; O'Neil Bros., $51,533. Noted Oct. 26.

N. Y., New York—(Richmond)—(Official)—Borough let contract sanitary sewer in Castleton Ave. to J. JOHNSONS' SONS, 455 Broadway, West New Brighton.

N. Y., Rochester—City let contract outlet sewer in Randolph St. to J. PETROSSI CO., $29,995.

N. J., Bayhead—City let contract sewer system to FIELD, BARKER & UNDERWOOD, Commercial Trust Bldg., Philadelphia, Penn., $46,510; pumping station and disposal plant to WHITING TURNER CONSTRUCTION CO., Sexton Bldg., Baltimore, Md., $25,999. Noted Aug. 31.

Va., Norfolk—City let contract sewer in Lamberts Point to F. J. McGUIRE.

Ohio, Cleveland—City let contracts sewers to ZEGIOLE & JOSEPH, 1038 Bolivar Rd., $5,225; D. ZULLO, $15,000, sewer Shaker Blvd.; REAUGH CONSTRUCTION CO., $6,524, sewer Dugway Brook; W. McDOWELL & SON, $5,300, sewer Forman Ave.; MANSON CO., $49,000, sewer Shaker Blvd., S. E.

Ohio, Toledo—City let contract sewer in Wildwood to J. SHEEHAN & CO. About $5,456.

Ohio, Zanesville—City let contract extending Clark St. sewer to MUSKINGUM CONTRACTING CO.

Ind., La Fayette—Bd. Water let contracts for sewers as follows: 3d St. to PARSONS & BAUGH; 4th St. to W. M. JACKSON; 5th St. to N. BRUCE MOORE. Noted Oct. 19.

Mich., Blissfield—City Council let contract sewers in King, Giles, South, Adrian and High St. to S. L. COTHRELL, 338 Ohio Bldg., Toledo, Ohio.

Mich., Lansing—City let contract sewers in Caldwell, Logan, Birch and other streets to FISHER & NOYCE. About $5,378. Noted Sept. 7.

Mich., Marshall—City let contract 7,200 ft. 10-, 12-, 15-, 18- and 20-in. storm sewers to RENIGER CONSTRUCTION CO., Marshall, $11,006. Noted Oct. 19.

Sewers (Continued)

Mich., Oakwood—Council let contract sewer system to J. C. CARLAND & CO., Toledo, Ohio, $166,008. Noted Mar. 9.

Ill., Niles Center—Village let contract storm and sanitary sewers to BRENNAN CONSTRUCTION CO., 11 North La Salle St., Chicago, about $55,000.

Wis., Columbus—(Official)—City let contract storm sewer to W. C. NEWMAN, Columbus. About $6,779. Noted Oct. 19.

Wis., Wauwatosa—(Official)—City let contract storm and sanitary sewers to H. HOHENSEE, 965 27th St., Milwaukee, about $18,000.

Minn., Duluth—Oliver Mining Co. let contract sewer in Mesaba Range to LAWRENCE-McCANN CO., Eveleth, $130,000.

Minn., Mankato—City rejected bids for storm sewer in West Front and West 4th St. H. F. Blomquist, City Engr. Noted Aug. 10.

Minn., St. Paul—(Official)—Bd. Pub. Wks. let contract sewer in Brainard Ave. and Edgerton St. to O'NEIL & PRESTON, $6,970.

Utah, Logan—City let contract extending sewer in 2d North St. to W. EVANS, Logan. About $8,580.

Wash., Enumclaw—City let contract sewer system to N. FIORITO & CO., 1630 25th Ave., Seattle. About $5,350. Noted July 20.

Wash., Spokane—Council received low bid for sewer in portion of 32d St. from Heikkila, Miller & Paulsen, $4,544. Noted Oct. 12.

Calif., Gilroy—City let contract sewer system to CONTRA COSTA CONSTRUCTION CO. About $40,000.

Calif., Los Angeles—City let contract 11,266-ft. 4-in. sewer pipe, 31,000-yd. excavation, 18 manholes and 2 catch-basins to J. KENNEDY, 901 Washington Bldg., Los Angeles, $84,936.

Calif., Los Angeles—City received low bid for sewer in Florence Ave. from J. Raduch, $113,500. Noted Sept. 14.

Calif., Sacramento—City let contract sewers in several streets to J. LAWRENCE, Broderick.

Calif., San Francisco—(Official)—Bd. Pub. Wks. let contract sewers in La Plays Ave. and Great Highway to CLINTON CONSTRUCTION CO., $35,192. Noted Oct. 19.

GARBAGE

Proposed Work

W. Va., Bluefield—City plans garbage-disposal plant and new system of collection. H. O. Wiles, City Engr.

STREETS AND ROADS

Proposed Work

Mass., Boston—City plans to spend $5,000,000 for widening streets. E. F. Murphy, Comr. Pub. Wks.

Mass., Medford—City plans improving Riverside Ave. About $172,000. F. P. Charwork, City Engr.

Mass., Watertown—City plans widening North Beacon St. About $60,000. W. F. Learned, City Engr.

R. I., Olneyville—City plans to repave Pocasset Ave. with macadam.

Conn., Berlin—City Council passed resolution for improving Worthington St.

Conn., Bristol—Council voted to appropriate $50,000 for street improvements. C. W. Buell, City Engr.

Conn., Hartford—City plans to pave 11 streets next year, asphalt. R. N. Clark, City Engr.

N. Y., Albany—City plans to improve streets in Beaver, Chestnut, Chapel and other streets by curbing, sidewalks, sewers, etc. F. R. Lanagan, City Engr.

N. Y., Rochester—Council passed ordinance to improve portion Gregory St., asphalt. F. T. Elwood, City Engr.

N. Y., Utica—J. Kemper, City Engr., submitted report to Bd. Contract and Supply estimating cost paving portion Walnut St., $11,143; Sunset Ave., $15,170; Miller St., $5,189.

N. J., Atlantic City—City plans boulevard entrance at Virginia, Adriatic and Indiana Ave., Venice Park. Project includes curbs, driveway and bridges. About $100,000. J. N. Hackney, Engr.

N. J., Florence—City plans to spend $6,000 for curbing and sidewalks. J. Logan, Mt. Holly, Engr.

N. J., Glen Ridge—City receiving bids Nov. 13 for grading portion Cartaret St. J. A. Brown, City Clk.

N. J., Newark—Essex County plans to pave portion Bloomfield Ave. F. A. Reimer, Court House, Engr.

N. J., New Brunswick—City voted $60,000 street improvement bonds. A. A. Atkinson, City Engr. Noted Sept. 7.

N. J., Orange—Town Council, West Orange, plans to improve Valley Rd. and Main St., belgian block. G. W. Foster, Clk.

N. J., Rutherford—Council plans to pave Union Ave. with state aid, amiesite. About $15,000. R. M. Watson, City Engr.

N. J., Summit—Union County soon receives bids for improving portion Hillcrest Ave., amiesite. Address County Clk., Elizabeth.

N. J., Woodbury—Bd. Freeholders, Gloucester County, making plans for about 3-mi. gravel road from Knights Run to Glassboro, also concrete paving on Cooper St. About $20,000. N. Catell, Wenonah, Engr.

Penn., Elizabeth—City soon receives bids for paving portion Bayard St., brick, about $7,000. R. M. McKinney, Dravosburg, and R. C. Bayne, McKeesport, Engrs.

Penn., Sunbury—City plans to curb and pave number streets. G. W. Keefer, 4th and Market St., Engr.

Penn., Washington—Washington County plans highway from Avella to Claysville. Address County Clk., Washington.

Penn., West Newton—Borough plans to pave German St.

Va., Roanoke—City receiving bids Nov. 23 for sidewalks on Loudon Ave. F. L. Gibboney, City Engr.

Va., Warm Springs—Bath County receiving bids Nov. 14 for about 3 mi. road near Mountain Grove, including bridges and culverts. F. L. Carue, Warm Springs, Clk.

W. Va., Fairmont—City election Nov. 15 to vote on $40,000 street-improvement bonds. S. B. Miller, City Engr.

W. Va., Keyser—Mineral County rejected bids for paving Keyser and Piedmont Rd., Keyser and Headsville Turnpike, Spring Rd., New Creek and Hardy Turnpike, Cut Off and Elk Garden Rds., New Creek Dist. New bids. Address County Clk., Keyser. Noted Sept. 28.

W. Va., Kingwood—Preston County receives bids in spring for about 35 mi. concrete paving in Portland Dist., $280,000. F. C. Everly, Court House, Clk. J. C. Wonders, Terra Alta, Consult. Engr.

W. Va., Logan—Logan County making plans for about 30-mi. brick and macadam road, Logan Dist., $200,000. Beddow, McCorkle & Wilson, Engr. Noted May 4.

W. Va., Summerville—Nicholas County plans election about Dec. 1 to vote on $75,000 bonds for 8-mi. concrete or macadam roads Kentucky Dist. C. N. Wiseman, Summerville, Clk.

W. Va., Wayne—Wayne County plans election about Jan. 1 to vote on bonds for 75-mi. brick, concrete or macadam roads, Ceredo Dist. J. J. Crum, Wayne, County Clk.

W. Va., Wheeling—Ohio County making surveys for highway from National Rd. at Elm Grove to Mt. de Chantal. G. Steenrod, Wheeling, County Rd. Engr.

W. Va., Winfield—Putnam County, Poca Dist., voted $90,000 road bonds. J. M. Henson, Winfield, County Clk. Noted Sept. 21.

Ga., Atlanta—Fulton County plans to resurface number roads. Address County Clk., Atlanta.

Ga., Atlanta—Henry, Clayton, Spalding and Pike County Highway Comrs. plan Atlanta-Macon Sect. Dixie Highway via Jonesboro, Hampton, Griffin, Barnesville and Forsyth. About $1,000 to $2,000 per mi. T. E. Patterson, Atlanta, Ch. Engr. State Highway Comn.

Ga., Cartersville—Barton County plans election to vote on $60,000 road bonds. Address County Clk., Cartersville.

Ga., Savannah—City plans to pave Florence St. E. R. Conant, City Engr.

Fla., Ormond—Bd. Trustees receiving bids Nov. 15 for about 23,000 sq.yd. hard surface street work. J. Milligan, Chn. C. M. Rogers, Daytona, Engr.

Fla., Perry—Taylor County soon receives bids for road work. About $600,000 available. Address County Clk., Perry. Noted Aug. 3.

Fla., Sarasota—Manatee County plans to repair road from Sarasota to Manatee. About $33,000. Address County Clk., Bradentown.

Miss., DeKalb—County receiving bids Nov. 22 for grading, draining and sand claying about 20 mi. road. Snowden & Hauser, Columbus, Engr.

Miss., Hernando—De Soto County making plans for 10 mi. gravel road. Address County Clk., Hernando.

La., Crowley—Acadia County plans to improve number roads. Address County Clk., Crowley.

La., De Ridder—Beauregard County plans to improve number roads. Address County Clk., De Ridder.

La., Donaldsonville—Ascension County issued $14,500 bonds for road work in Ascension Parish First Road Dist. Address County Clk., Donaldsonville.

Tenn., Centerville—Hickman County to sell $225,000 highway bonds Nov. 22. J. T. Bates, Centerville, County Judge. Noted Sept. 28.

Tenn., Lewisburg—Marshall County, Byhalia Separate Rd. Dist., voted $35,000 road bonds. Address County Clk., Lewisburg.

Tenn., Memphis—Shelby County making plans for 10 mi. gravel road across northeast corner De Soto County. S. W. McCleskey, Memphis, Engr.

Tenn., Trezevant—Carroll County election Dec. 12 to vote on $200,000 road bonds. Address County Clk., Huntington.

Ky., Owingsville—Bath County plans to spend about $24,000 ($12,000 state aid), to rebuild Owingsville-Sharpsburg Rd., about 12 mi. Address County Clk., Owingsville.

Ohio, Akron—Summit County receiving bids Nov. 16 for improving Sagamore Rd. E. W. Paul, Akron, County Engr.

Ohio, Akron—Summit County receiving bids Nov. 15 for grading, draining and paving with brick Stow-Tallmadge Rd., Tallmadge Township. E. W. Paul, Akron, County Engr. Noted Oct. 19.

Ohio, Cincinnati—City plans to pave Collegevue Pl. F. Krug, City Engr.

Ohio, Cleveland—City plans to pave portion Sidaway Ave., S. E., stone or brick. R. Hoffman, City Engr.

Ohio, Cleveland—City Council passed resolution to pave East 102nd St., East 125th and Roy St. and repave portion Broadway Ave. Robert Hoffman, City Engr.

Ohio, Cincinnati—City making plans for curbing, paving and water mains in Bondinot Ave., about $17,000; granite paving, sidewalks, etc., west Corbin St. to Strader Ave., about $115,000. F. S. Krug, City Engr.

Ohio, Coshocton—(Official)—City sold $10,000 bonds for paving 15th St. H. Gamble, City Audr. Noted Oct. 19.

Ohio, Dayton—Council passed ordinance for paving portion of Hussong Lane, concrete. F. O. Eichelberger, City Engr.

Ohio, Dayton—City plans to pave Wroe St. F. O. Eichelberger, City Engr.

Ohio, Dayton—Montgomery County receiving bids Nov. 23 for improving Hillcrest Ave., Harrison Township. About $4,000. Address County Clk, Dayton.

Ohio, Delaware—Delaware County to sell $88,300 road bonds Nov. 16. W. V. Aldrich, Delaware, County Audr.

Ohio, Euclid—Village receiving bids Nov. 27 for improving portion of North St. H. S. Dunlop, Clk.

Ohio, Euclid—Town receiving bids Nov. 27 for improving East St. About $10,000. F. A. Pease, Marshall Bldg., Cleveland, Engr.

Ohio, Lebanon—Warren County soon receives bids for about 7½ mi. paving on Sects. A and B of Morroe-Lebanon Rd., Turtle Creek Township. C. S. Mounts, Lebanon, Audr.

Ohio, Norwood—City plans to pave and curb Drexel Ave., brick, about $8,000, and Sherman Ave., about $22,000. J. G. Schmidt, City Engr.

Ohio, Oberlin—Council voted to improve North Main St.

Ohio, Portsmouth—Council passed ordinance for improving portions of Kinney St., Dexter and Gallia Ave. P. G. Harper, City Engr.

Ohio, Rocky River—Village plans to improve Fraser Rd., concrete, about $25,000. E. H. Arnold, Rocky River, Engr.

Ohio, Salem—Columbiana County receiving bids Nov. 25 for widening Salem Pike and Bridge No. 1, Randolph Township. Address County Clk., Salem.

Ohio, Youngstown—Council passed ordinance for improving portion of Helena Ave. F. M. Lillie, City Engr.

Ohio, Youngstown—City to sell $42,615 street improvement bonds Nov. 20. J. R. Edwards, Audr.

Ohio, Youngstown—F. Lillie, City Engr., submitted report estimating cost widening West Federal St. from Deibel's Corner to Spring Common from $200,000 to $250,000.

Ind., Ft. Wayne—City plans widening and paving Broadway Pkwy. F. M. Randall, City Engr.

Ind., Indianapolis—Council passed ordinance to pave portion Southern Ave. B. J. T. Jeup, City Engr.

Ind., New Albany—City soon receives bids for improving De Pauw Pl. S. T. Mann, City Engr.

Ind., Sullivan—City plans 1¾ mi. brick paving. F. M. Cunningham, Engr.

Mich., Cassopolis—Cass County voted road bonds. Address County Clk., Cassopolis.

Mich., Hersey—City voted $4,000 road bonds.

Mich., Jackson—City plans to pave West Main, Blackstone and other streets, about $278,000. A. W. D. Hall, City Engr.

Mich., Marshall—(Official)—City engaged L. A. Boulay Co., Toledo, Ohio, to prepare plans and estimates of cost of paving North and South Marshall Ave., and North and South Kalamazoo Ave., also additions to storm water system. Noted Sept. 14.

Mich., Montague—Muskegon County plans 16 mi. highway from Montague to New Era with state aid. Address County Clk., Muskegon.

Mich., Saginaw—Council plans to pave Germania Ave., also lay crosswalks and cement sidewalks on other streets. H. H. Eymer, City Engr.

Ill., Bloomington—Council plans to pave portions Grove, Front, East Jefferson and 5 other streets. E. H. Packard, City Engr.

Ill., Chicago—City Council recommended paving streets, about $400,000. J. Ericson, City Engr.

Ill., Chicago—Cook County plans 8½ mi. concrete road on 95th St. G. Quinlan, 325 County Bldg., Engr.

Ill., Evanston—City plans paving Ridge Ave. J. I. Bromer, City Engr.

Ill., Evanston—City plans paving Orrington Ave. in spring. J. I. Bromer, City Engr.

Ill., Lincoln—Bd. Local Impvts. plans to spend about $50,000 for paving 22 blocks next year. W. C. Bates, City Engr.

Streets and Roads (Continued)

Ill., Maywood—City plans to pave, curb and gutter portions South 2nd, South 5th, 7th, 9th and 10th St. R. E. Williams, 118 North La Salle St., Chicago, Engr.

Wis., Altoona—City plans to pave various streets. C. J. Hayden, City Clk.

Wis., Darlington—Lafayette County plans to spend about $50,000 for road work next year. Work to be done by day labor. C. H. Priestley, Court House, Comrs.

Wis., Eau Claire—Eau Claire County plans $500,000 road bond issue. Address County Clk., Eau Claire.

Wis., Hartland—Village plans to improve streets in spring. H. A. Carpenter, City Clk.

Wis., Manitowoc—City plans to pave 6 streets next year. L. K. Pitz, City Engr.

Wis., Waupun—See item under "Sewers."

Wis., West Bend—Washington County plans $800,000 bond issue for 3 concrete roads. A. Thielman, West Bend, Audr.

Iowa, Boone—Council plans to pave about 6 mi. streets. R. McCormick, City Engr.

Iowa, Cedar Rapids—City receiving bids Feb. 1 for 13 blocks paving on 1st Ave. About $90,500. T. F. McCauley, Engr.

Iowa, Muscatine—Muscatine County receiving bids Nov. 14 for grading road in Sects. D and E of Muscatine-Montpelier Rd. F. P. G. Halbfass, Muscatine, County Engr.

Minn., Minneapolis—City plans to widen St. Anthony Rd., about $8,000. F. W. Cappelon, City Engr.

Minn., Princeton—Millelaco County plans to gravel state roads Nos. 1 and 6. About $75,000. W. C. Doane, Princeton, Audr.

Kan., Clay Center—City plans paving portion of Crawford St. E. R. DeBray, Clk.

Kan., Erie—City plans to pave portion 4th St. P. W. Kyle, City Clk.

Kan., Lawrence—City plans to pave Locust and Louisiana St. About $21,359. E. H. Dunmire, City Engr.

Neb., Beatrice—City plans paving Dist. No. 23. A. J. Pethouch, City Engr.

Neb., Omaha—J. A. Bruce, City Engr., submitted plans to City Planning Bd. for widening portion of 24th St.

N. D., Fargo—Council plans to pave streets in Dist. No. 1. F. L. Anders, City Engr.

N. D., Marmarth—City receiving bids Nov. 13 for grading streets and alleys, Impvt. Dist. No. 1.

Mo., Monett—City plans to pave 3rd and 7th St. B. Robbins, Engr.

Mo., St. Joseph—Bd. Pub. Wks. passed ordinance for repaving portion of Felix St. C. P. Hoff, City Engr.

Ark., Des Ark.—City plans to pave about 5 mi. of walks with cement.

Ark., Fayetteville—City making preliminary plans for macadamizing Arkansas Ave. D. E. Breidenthal, City Clk.

Ark., Lincoln—Lincoln-Morell Rd. Dist. plans 8 mi. road in Washington County. C. O. Patterson, Lincoln, Chn.

Ark., Mt. Ida—Montgomery County plans highway next year. Address County Engr., Mt. Ida.

Tex., Bonham—Fannin County voted $40,000 road bonds. Address County Clk., Bonham.

Tex., Bonham—(Official)—Fannin County, Dist. No. 19, election Oct. 21 to vote on $150,000 road bonds. Address County Clk., Bonham.

Tex., Cameron—(Official)—Milam County, Dist. No. 8, election Nov. 16 to vote on $150,000 road bonds. Address County Clk., Cameron.

Tex., Dallas—City plans to pave portions Peach, Olin, Grand and McKinney St. H. Moseley, City Engr.

Tex., Fredericksburg—Gillespie County plans to complete portion Puget Sound to Gulf Highway. Address County Clk., Fredericksburg.

Tex., Lefors—(Official)—Gray County, Dist. No. 1, election Nov. 18, to vote on $40,000 road bonds. Address County Clk., Lefors. Noted Nov. 2.

Tex., Rusk—(Official)—Cherokee County, Dist. No. 1, voted $250,000 road bonds. Address County Clk., Rusk. Noted Oct. 12.

Tex., Rusk—(Official)—Cherokee County, Dist. No. 2, election Nov. 18, to vote on $150,000 road bonds. Address County Clk., Rusk.

Okla., Holdenville—Hughes County, Calvin Township, voted $30,000 road bonds. Address County Clk., Holdenville. Noted June 22.

Okla., Oklahoma—City rejected bids paving Park Pl. New bids. G. V. McClure, City Engr. Noted Sept. 21.

Okla., Pauls Valley—Garvin County soon receives bids for grading about 2 mi. dirt road. W. E. Moore, 1006 Campbell Bldg., Oklahoma, Engr.

Colo., Littleton—Arapahoe County plans road through Deer Creek Cañon to connect with state road at Conifer. Address County Clk., Littleton.

Nev., Reno—Comrs. Washoe County recommended bond issue for $400,000 for improving county roads. Address County Clk., Reno.

Wash., Bellingham—Whatcom County plans to spend about $176,055 for road and bridge work next year. Address County Clk., Bellingham.

Wash., Colfax—Whitman County has $68,713 available for permanent highways, $35,000 for road and bridge work and $47,572 for state highway work next year. Address County Clk., Colfax.

Wash., Everett—City soon receives bids for improving Rockefeller Ave. H. Mumm, City Engr.

Wash., Everett—Snohomish County receiving bids Nov. 13 for improving Bond Rd. No. 30. Address County Clk., Everett.

Ore., Eugene—Lane County plans to extend Lane-Coos Highway from Eugene to Marshfield. Address County Clk., Eugene.

Ore., Medford—City plans hard surfacing streets. About $730,000. O. Arnspiger, City Engr.

Ore., Oregon City—Clackamas County plans hard surfacing East 82nd St. Rd. H. H. Johnson, County Engr., Oregon City.

Ore., Portland—Multnomah County plans to spend $600,000 for road and bridge work. Address County Clk., Portland.

Calif., Los Angeles—City plans paving Mt. Washington Drive. H. Hamlin, City Engr.

Bids In and Contracts Awarded

Conn., New Haven—City let contract paving Prospect St. to C. W. BLAKESLEE & SONS.

Conn., New Haven—Dept. Parks let contract about 10,000 sq.ft. cement walks Chapel and Church St. to J. N. RICE, 902 Chapel St.

N. Y., Albany—(Official)—State Highway Comn. let contracts constructing and repairing highways in various counties as follows: Rd. No. 5607, Franklinville-Machias, Cattaraugus County, 4.73 mi.—VEDDER CONSTRUCTION CO., Delevan, $72,798. Rd. No. 5608, Machias-Delevan, Part 1, Cattaraugus County, 2.17 mi.—VEDDER CONSTRUCTION CO., Delevan, $33,179; Rd. No. 686-A, Weedsport-Cato, Cuyahoga County, 0.12 mi.—C. E. RICE, Weedsport, $3,014; Rd. No. 1381, Fredonia-South Dayton, Part 3, Chautauqua County, 3.90 mi.—W. F. FELTON, 1450 Michigan Ave., Buffalo, $49,807; Rd. No. 1469, Silver Creek-Forestville, Chautauqua County, 4.94 mi.—W. F. FELTON, 1450 Michigan Ave., Delevan, $85,094; Rd. No. 5434-A, Mayville-Westfield, Chautauqua County, 0.05 mi.—EDWARD T. BECK, Warren, Penn.; $6,341; Rd. No. 1473, Otselic-Smyrna, Part 1, Chenango County, 3.06 mi.—PADDLEFORD & KING, Sherburne, $43,184; Rd. No. 5629, Spencertown-Austerliz, Columbia County, 5.02 mi.—ANTONIO COLAMSEO, Hudson, $65,852; Rd. No. 5622, Holland-Yorkshire, Part 1, Erie County, 5.19 mi.—HARPER & HIGGINSON, INC., Newburgh, $106,950; Rd. No. 621, St. Johnsville-Oppenheim, Part 2, Fulton County, 2.90 mi.—COUCHY & DARLING, Dolgeville, $29,970; Rd. No. 1377, Gloversville-West Perth, Fulton County, 3.74 mi.—H. A. SCHAUPP, Guilderland, $38,993; Rd. No. 1256, Gunn Corners-Fishers Ldg., Part 1, Jefferson County, 6.65 mi.—H. P. BURGARD, 1968 Fillmore Ave., Buffalo, $79,831; Rd. No. 1351, Groveland-West Sparta, Livingston County, 2.05 mi.—ATLANTIC CONSTRUCTION CO., Atlanta, $34,856; Rd. No. 1466, Churchville-Adams Basin, Monroe County, 6.33 mi.—RIBSTEIN-HOLTER CONSTRUCTION CO., 16 State St., Rochester, $70,815; Rd. No. 513, Amsterdam-Morris Corner, Montgomery County, 2.49 mi.—C. G. SNYDER, 1 Marion St., Amsterdam, $21,793; Rd. No. 515, Berryville-Sammonsville, Montgomery County, 1.61 mi.—ADIRONDACK CONSTRUCTION CO., Waterford, $18,107; Rd. No. 5625, Fayetteville-Chittenango, Part 1, Onondaga County, 3.94 mi.—EAGLE PAVING CO., Syracuse, $64,236; Rd. No. 5630, Weedsport-Jordan, Part 2, Onondaga County, 1.76 mi.—C. H. SEMPER, Syracuse, $28,699; Rd. No. 5612, Waddington-Massena, Part 1, St. Lawrence County, 9.12 mi.—H. P. BURGARD CO., 1968 Fillmore St., Buffalo, $139,810; Rd. No. 1460, Gansvoort-St. Glens Falls, Saratoga County, 6.74 mi.—J. J. GUINAN CONTRACTING CO., 2314 Gravesend Ave., Brooklyn, $105,791; Rd. No. 1420, Bradford-Tyrone, Schuyler County, 3.01 mi.—WILLIS L. FROST, Watkins, $30,909; Rd. No. 1474, Kanona-Prattsburg, Part 2, Steuben County, 4.99 mi.—ATLANTA CONSTRUCTION CO., Atlanta, $46,151; Rd. No. 1475, Horning-Hornby, Steuben County, 6 mi.—ATLANTA CONSTRUCTION CO., Atlanta, $69,320; Rd. No. 1476, Seely Creek-Caton, Part 2, Steuben County, 4 mi.—ATLANTA CONSTRUCTION CO., Atlanta, $49,405; Rd. No. 1477, Wayland Village, Steuben County, 2.83 mi.—ATLANTA CONSTRUCTION CO., Atlanta, $53,261; Rd. No. 1463, Liberty-Woodbourne, Part 2, Sullivan County, 5.63 mi.—ARMSTRONG & TROWBRIDGE, Middletown, $64,697; Rd. No. 1417, Wallkill-Newburgh, Part 1, Ulster County, 3.12 mi.—JOHN A. JOVA, INC., Newburgh, $35,782; Rd. No. 1418, Milton Landing-Milton, Ulster County, 0.55 mi.—HARPER & HIGGINSON, INC., Newburgh, $14,287; Rd. No. 1465, Ulster Landing-Glasco, Ulster County, 2.79 mi.—C. T. SCHOENTAG, Saugerties, $34,966; Rd. No. 5832, Sodus-Alton, Wayne County, 5.85 mi.—HARRADINE BROS., Spencerport, $81,816; Rd. No. 1162, Stonehouse-Stormville, Dutchess County, 5.16 mi.—FULTON ENGINEERING COO., INC., Albany, $43,237; Rd. No. 1321, Conesus-Wayland, Livingston County, 8.35 mi.—F. J. KENNEY CONSTRUCTION CO., Buffalo, $84,681; Rd. No. 1045, Cambria-Lockport, Niagara County, 5.13 mi.—HAMMOND-TRACEY CONSTRUCTION CO., Middleport, $11,645; Repair Contract No. 1006, Rd. No. 569, Baldwin Place-Mahopac, Putnam County—AMOS D. BRIDGES & SONS, Hazardville, Conn., $8,830; Repair Contract No. 797, Rd. No. 462, Old Forge-McKeever, Herkimer County, PHELAN & SULLIVAN, Utica, $5,791; Repair Contract No. 942, Rd. No. 120, Canajoharie-Sharon Springs, Montgomery County—D. I. SNELL & CO., Canajoharie, $8,105. Noted Nov. 2.

N. Y., Albany—Bd. Contract and Supply let contracts paving to M. F. DOLLARD, Park Ave., $6,797, 3rd St., $12,977; S. B. EASTON, Leibel St., $5,303.

N. Y., New York—(Bronx)—(Official)—Borough let contract improving portion West 238th St. to SPADARO CONTRACTING CO., 827 East 217th St., about $46,556. Noted Nov. 2.

N. Y., New York—(Brooklyn)—(Official)—Borough lets contracts improving streets to SICILIAN ASPHALT PAVING CO., 41 Park Row, Manhattan, Ashland Pl., $5,571; CRANFORD CO., 52 9th Ave., Manhattan, Bay 34th St., $11,958. Noted Nov. 2.

N. Y., New York—(Manhattan)—M. M. Marks, Boro. Pres., Room 2032, Municipal Bldg., receiving bids Nov. 15 for cement sidewalk about 5 ft. width adjoining existing pavement west side Riverside Dr. service street from 158th to 162d St.

N. Y., New York—(Richmond)—(Official)—Borough let contract for improving portion Ridgewood Pl. to J. JOHNSON'S SONS, 455 Broadway, West New Brighton. Noted Oct. 26.

N. Y., Rochester—City let contracts paving as follows: Rosedale St., F. V. BROTSCH, $11,984; Bellevue Dr. and Priem St., WHITMORE, RAUBER & VICINUS, $8,499; Minnesota St., O. COSTICH CO., $8,333.

N. J., Bayonne—City received low bid paving Evergreen St., asphalt, from W. T. S. CRITCHFIELD, Hoboken, about $17,642. Noted Nov. 9.

Penn., Connellsville—City let contract paving portion Arch St. to DUGGAN & MILLER, about $15,000. Noted Sept. 14.

Penn., Erie—(Official)—City let contract grading Parade St. under tracks of New York Central and Pennsylvania R.R. to L. V. METZ, $12,984.

Penn., Kingston—Borough let contract improving Curtis St. and Payne and Elm Ave. to DAVIS & PARRY, Dorrancetown.

Penn., Pittsburgh—Allegheny County let contract improving Freeport Rd. to BOOTH & FLINN, 1942 Forbes St.

Penn., Pittsburgh—Allegheny County let contract rebuilding Browns Hill Rd. to McCRADY BROS., about $77,800. Noted Sept. 28.

W. Va., Clarksburg—Harrison County let contract paving in Clay Dist. to W. F. ALLEN and P. S. HORNER, Clarksburg, and FERGUSON & HOLBERN, Shinnston, about $33,000 each. Noted May 18.

W. Va., Moundsville—City let contract paving portions Grant, Tomlinson and Ash Ave. to R. J. McFADDEN and SPRINGER & SPRINGER. Noted Nov. 2.

W. Va., Princeton—Mercer County let contract improving road between gap of Stony Ridge and Bluefield to VAUGHAN CONSTRUCTION CO., Roanoke, about $12,000.

N. C., Durham—(Official)—City let contract paving Buchanan Rd. to R. G. LASSITER, Oxford, about $20,000. Noted Oct. 19.

Fla., Brooksville—City let contract paving to DAVIS & WEBB, Tampa, about $9,445. Noted Sept. 28.

Ala., Birmingham—(Official)—Bd. Revenue Jefferson County rejected bids for 15.2 mi. roads, 204,575 cu.yd. earth excavation, 57,850 cu.yd. loose rock, 64,850 cu.yd. solid rock, 7,205 lin.ft. c.-i. culvert pipe and cement bridges. New bids Nov. 12. G. H. Clark, Birmingham, County Engr. Noted Oct. 12.

Tenn., Brownsville—City let contract resurfacing 10-mi. streets to THOMPSON, GRAHAM & CO., Nashville.

Tenn., Lenoir City—Council let contract paving Broadway to MURRAY CONSTRUCTION CO., Knoxville.

Ky., Flatlick—County let contract grading road from Bailey's Switch to Corbin, 15 mi., also 2 mi. road in Flatlick to MASON CONSTRUCTION CO., Emanuel, about $36,150.

Ohio, Cincinnati—Council let contract improving portion Agnes St. to A. BIRNBAUM, 2163 Fairview Ave. Noted May 4.

Ohio, Cleveland—City let contract improving West 36th St. to ROEHL BROS., about $6,800.

Ohio, Cleveland—City let contract paving Ardoon Ave. to CLEVELAND TRINIDAD PAVING CO., 421 Lakeside Ave., about $8,700.

Ohio, Dayton—City let contracts paving as follows: C. HOOLIHAN, Builders' Exchange, Neal Ave., $20,888, Florence Ave., $4,409, Old Orchard and Arbor Ave., $18,101; GEIGER & FINK, Germantown St., Bowen St., $9,068.

Ohio, Dayton—Montgomery County let contract to GEIGER & FINKE, Germantown St., for macadamizing Springfield Pike.

Ohio, Portsmouth—City let contract paving portion Kendall Ave. to KELLEY BROS. Noted Nov. 2.

Streets and Roads (Continued)

Ohio, Portsmouth—City let contract paving Central Ave., Grant, Spring and Center St. to KELLY BROS.

Ohio, Toledo—Lucas County let contract paving Peach Ave. to E. OBERLE, $7,198.

Ohio, Toledo—City let contract paving portion of Elm St. to HARRIS & TANSEY, $419,326.

Ohio, Youngstown—Mahoning County let contract paving portion Lyons Rd. to RILEY & RILEY, $6,709.

Ind., Columbus—(Official) Bartholomew County let contract 3 roads in Columbus Township to F. H. KNIT CONSTRUCTION CO., Shelbyville. About $93,482. Noted Oct. 12.

Ind., Indianapolis—Bd. Pub. Wks. let contract paving Kentucky Ave. to MARION COUNTY CONSTRUCTION CO., 1600 South-West St. Noted Mar. 30.

Ind., Indianapolis—City let contract paving Kenwood Ave. to UNION ASPHALT CONSTRUCTION CO., American Central Life Bldg., $9,860. Noted Aug. 17.

Ind., Indianapolis—City let contract paving Downey St. to MARION COUNTY CONSTRUCTION CO., 1600 South-West St., $10,074.

Ind., Jeffersonville—Clark County Comrs. let contract improving Edward Kelly Rd. in Clarksville to JOHN GRANINGER. About $13,000.

Ind., Terre Haute—(Official)—Vigo County let contract gravel road in Harrison Township to CAMPBELL & HAWKINS, Brazil. About $20,847. Noted Oct. 12.

Ill., Oquawka—City let contract graveling Monmouth-Oquawka Rd. to E. A. LORD CONSTRUCTION CO., Monmouth.

Ill., River Forest—City let contract improving portion Jackson Ave. to A. JACKSON, 275 Thatcher Ave.

Ill., Virginia—City let contract paving to J. G. PRATT, Virginia, about $9,000. Noted Nov. 2.

Ill., Winnetka—City let contract improving portion Elm St. to A. W. WYLLIE, 1036 Spruce St., about $12,000.

Iowa, Jefferson—City let contract paving about 8,500 sq.yd. to FORD PAVING CO., Cedar Rapids, $1.86 per sq.yd.

Minn., Duluth—St. Louis County Comrs. let contract Brookston-Cloquet Rd. to JAMES WILCOX, Foxboro, Wis., at $2,040 per mi.

Kan., Leavenworth—City let contract paving Broadway to WATTS & AMMERMAN, Salina, about $56,990 for 15 years' maintenance. Noted Nov. 2.

Kan., Winfield—City let contract paving John and Blandon St. to C. L. BESLER. Noted Oct. 19.

Neb., Beatrice—City let contract paving Dist. No. 22 to ABEL CONSTRUCTION CO., Lincoln.

Mont., Bozeman—City let contract paving portion Babcock St. to WARREN CONSTRUCTION CO., about $17,530.

Mo., Chillicothe—City let contract paving portion Ann St. to J. F. MEEK. Noted Aug. 17.

Mo., St. Joseph—City let contract paving portion Seneca St. to J. F. BUIS.

Ark., Pine Bluff—City let contract paving Harding Ave. to J. P. McNULTY. Noted Aug. 2.

Tex., Boston—(Official)—Bowie County let contract improving road from Boston to connect with road leading to Texarkana to N. B. GREGORY.

Tex., Corpus Christi—City let contract 5,900 sq.yd. bitulithic paving to TEXAS BITULITHIC Co., Dalas. Noted Oct. 19.

Tex., El Paso—City let contract paving portion Florence St. to McCARTHY & SHANKLIN. Noted July 20.

Tex., Ft. Worth—City let contract grading and graveling Bessie St. and Vickery Blvd. to GENERAL CONSTRUCTION CO., $6,893. Noted Oct. 12.

Tex., Ft. Worth—City let contract paving Handley Blvd., brick, to H. K. McCOLLUM, $13,452.

Tex., Georgetown—County let contract 12 mi. macadam roads to T. McMILLAN, San Marcos, about $30,000.

Tex., Houston—City let contract graveling portion Chenevart and Webster St. to TALBOT CO.

Tex., Houston—Harris County let contract repaving Katy and Washington Rd. to FINLEY METHOD CO., Houston, about $18,152 and $16,620 respectively. Noted Oct. 26.

Tex., Vernon—(Official)—City let contract 25,000 sq.yd. asphaltic concrete paving to GENERAL CONSTRUCTION CO., Ft. Worth, $1.55 per yd.

Okla., Tulsa—City let contract resurfacing viaduct at 3rd and Lawton St. to PARKER-WASHINGTON CO. Noted Oct. 19.

Idaho, Pocatello—(Official)—Council let contract improving South 3rd St., also grading and paving streets in Dist. No. 14 to J. J. CARROLL, Boise. About $29,578. Noted Oct. 12.

Idaho, Pocatello—(Official)—City let contract paving Local Improvement Dist. No. 20 to R. M. BARDSEN & CO., Pocatello. About $41,601. Noted Oct. 19.

Wash., Sumner—City let contract paving Ryan St. to ERICKSON, ANDERSON & HICKER, Seattle, $24,842. Noted Aug. 24.

Calif., Chino—City let contract improving various streets to CALIFORNIA-ARIZONA CONSTRUCTION CO., at $53,715. Noted Oct. 26.

Calif., Hermosa Beach—City let contract improving several streets to MUNICIPAL IMPROVEMENT CO., Richmond, at $8,012.

Calif., Los Angeles—City let contract improving Bluff Pl. to FAIRCHILD-GILMORE-WILTON CO., Pacific Electric Bldg., at $17,762. Noted Nov. 2.

Calif., Los Angeles—City let contract improving Mariposa Ave. to G. R. CURTIS, about $12,180.

Calif., Martinez—City let contract paving and extending Bay Point Highway to W. E. PRICE, about $4,099.

Calif., Richmond—(Official)—City let contract improving 47th St. to G. W. CUSHING, 420 Macdonald Ave., $10,151. Noted Nov. 2.

Calif., Riverside—City let contract improving road to B. R. DAVIDSON CONTRACTING CO., Monrovia, about $6,370.

Calif., Riverside—Conner Contracting Co., Los Angeles, about $8,260, low bidder improving Sect. 15, Corona to Coldwater Cañon Rd.

Calif., Sacramento—City let contract paving Carnell Ave. to CLARK & HENERY CONSTRUCTION CO., Ochner Bldg.

Calif., San Diego—City let contract paving 1 mi. Biological Grade Rd. to FAIRCHILD-GILMORE-WILTON CO., Pacific Electric Bldg., about $17,358. Noted Oct. 5.

INDUSTRIAL WORKS

Proposed Work

Maine, Biddeford—Biddeford Building Co. making plans for 3-story shoe factory. About $50,000. G. Burnham and E. Higgins, 120 Exchange St., Portland, Arch.

Mass., North Uxbridge—Worcester Consolidated St. Ry., Worcester, plans 1-story, 20x120-ft. addition to carhouse. H. C. Page, Worcester, Gen. Mgr.

Conn., Waterbury—General Manufacturing Co., 66 North Elm St., plans 4-story, 25x60-ft. factory with wing 1-story, 25x60-ft. C. J. Bailey, Arch.

N. Y., Albany—Rathbone-Sard Electric Co., Inc., purchased plant of Interstate Storage Co., Rathbone and Thacher St., and will build addition. H. P. G. Norstrand, Mgr.

N. Y., Amsterdam—Blood Knitting Co., 15 Washington St., plans addition about $40,000.

N. Y., Buffalo—N. Gugino, 3040 State St., making plans for 5-story, 70x70-ft. factory. P. Cimini, 47 Niagara St., Arch.

N. Y., Lawrence—V. Zavatt, Lawrence, and E. M. Schwarz & Co., East End Ave. and 81st St., Manhattan, made plans for 2-story cigar factory on Lawrence Ave. About $10,000.

N. Y., New York—(Brooklyn)—E. N. Pilzer Cut Stone Co. making plans for 1-story, 100x150-ft. brick garage, Watkins St. and Lott Ave. About $20,000. M. Whinston, 459 Stone Ave., Arch.

N. Y., New York—(Manhattan)—(Official)—Thonet Bros., 14 East 32d St., receiving bids for 2-story, 25x95-ft. factory at 542-46 West 36th St. About $60,000 or $70,000. G. Keister, 56 West 45th St., New York, Arch.

N. Y., New York—(Manhattan)—(Official)—West 66th St. Garage, Inc., 34 West 66th St., receiving bids for 5-story, 50.5x100.5-ft. brick and concrete garage. About $100,000. Shape & Bready, Inc., 220 West 42d St., New York, Arch.

N. Y., New York—(Manhattan)—W. W. Rudd, 525 St. Marks Ave., Brooklyn, plans addition to garage and storage building at 302-4 West 68th St. About $20,000.

N. Y., Niagara Falls—Niagara Fireworks Co., Michigan and Myrtle St., plans new factory on East Delavan Ave.

N. Y., Silver Springs—Worcester Salt Co., 71 Murray St., New York, made plans for 4-story addition to factory. About $11,000. J. E. Nash, Silver Springs, Mgr.

N. J., Jersey City—Armour & Co., Union Stock Yards, Chicago, plans plant at Cole, Monmouth, 16th and 17th St.

N. J., Newark—Firestone Tire and Rubber Co., South Main St., Akron, plans plant at Newark. About $125,000.

N. J., Passaic—Merrick Scale Co., 225 Main Ave., plans new plant at Erie R.R. tracks.

N. J., Passaic—Gera Mill Co., 8th St., plans addition to plant.

N. J., Perth Amboy—Raritan Copper Wks. making plans for 2-story brick and steel blast furnace. About $10,000. G. L. Fulton, Arch.

N. J., Somerville—F. Sisser, 134 East Main St., making plans for 3-story brick storage house. P. C. Van Nuys, 1 West Main St., Arch.

N. J., West New York—J. Leupold, 997 Bergenline Ave., North Bergen, made plans for 1-story embroidery factory. About $14,000. A. E. Dore, Jr., 650 Bergenline Ave., Arch.

Penn., Philadelphia—Philadelphia Enamel Manufacturing Co. plans 1-story, 120x200-ft. factory. H. H. Kline, 6th and Mifflin St., Arch.

Penn., South Bethlehem—Automobile Searchlite Co. making plans for 2-story, 35x50x212-ft. factory and power house. J. C. Carter, Chicago, Engr.

Md., Baltimore—Kaufman Beef Co. retained C. H. A. Wannenwetsch & Co., Arch., Citizens' Bank Bldg., Buffalo, N. Y., to make plans for additions to plant. About $20,000.

Md., Baltimore—Northern Central Ry. plans 5-story, rein.-con. warehouse. A. C. Schand, Broad St. Sta., Philadelphia, Ch. Engr.

Md., Baltimore—Wilson & Co., 5 West Camden St., made plans branch packing plant. About $50,000. C. T. Bennett, Arch. Noted Oct. 19.

Md., Frederick—Ebert Furniture Co., of Philadelphia, plans 300x300x360-ft. factory. About $50,000. Kepner & Smith, Frederick, Arch.

Md., Frederick—Fibre Brush Co. plans 3-story, 50x100-ft. addition. F. J. K. Robinson, 47 West 34th St., New York, Pres.

Md., Highlandtown—Crown Cork and Seal Co., 1601-37 Guilford Ave., Baltimore, making plans for brick and concrete machine shop. O. G. Simonson, Maryland Casualty Tower Bldg., Baltimore, Arch.

Va., Newport News—Hoffman Core Co. plans cordage plant, about $300,000. Haywood & Moss, Newport News, Arch.

Va., Richmond—J. Bryan, Times-Dispatch Bldg., making plans for 2-story garage and salesroom. About $40,000. C. M. Robinson, Times-Dispatch Bldg., Arch.

W. Va., Charleston—Consumers' Insulating Co., New Lexington, Ohio, plans plant at Charleston to manufacture porcelain products.

N. C., Monroe—Winchester & Futch to build 3-story brick mill factory.

N. C., Valdese—Valdese Manufacturing Co. plans addition to plant, about $100,000.

S. C., Spartanburg—Southern Ry., plans to enlarge roundhouses and yards. B. Herman, Washington, D. C., Ch. Engr.

Ga., Macon—Acme Ice and Bottling Co. plans packing plant, about $500,000. A. Block, Macon, Pres.

Ga., Macon—C. L. Brooks, Moultrie, interested in packing plant at Macon. About $400,000.

Ga., Macon—National Milling Co. plans plant, about $50,000. Address A. and N. M. Block.

Ala., Andalusia—Southern Cotton Oil Co. to rebuild plant destroyed by fire with loss of $50,000.

Miss., Hattiesburg—Hattiesburg Pulp and Paper Co., recently incorporated with $1,500,000 capital stock, made plans for paper factory. Friend & Webbre, New Orleans, Engr. G. R. Wright, Pres. Louisiana Fibre Bd. Co., Bogalusa, interested. Noted May 25.

La., Bogalusa—Ozone Ice Co. plans brick and concrete storage plant and creamery. Estimated cost between $12,000 and $15,000. M. K. Pearce, Box 646, Prop.

La., New Orleans—Consumers Biscuit Co. plans 8-story factory.

La., New Orleans—Federal Fruit and Cold Storage Co. made plans for plant. About $250,000. Diboll & Owen, 520 Interstate Bldg., Arch.

La., New Orleans—Letellier-Phillips Paper Co. plans improving its plant. About $12,000.

La., New Orleans—Merchants and Farmers Bottling, Canning and Preserving Co. plans plant Lower Third Dist. H. B. Brown, Arch.

La., Shreveport—Dickinson Sales and Garage Co. plans service station and automobile building. About $50,000.

Tenn., South Pittsburgh—Aycock Hosiery Mills plans 2 additional buildings. About $15,000 and $20,000 respectively. W. H. Sears, Chattanooga, Arch.

Ohio, Bellefontaine—Summit Milk Co. soon receives bids for 1-story creamery. About $10,000. W. L. G. Kood, Logan House Blk., Mgr.

Ohio, Cincinnati—Auto Tire and Repairing Co. made preliminary plans for 2-story shop. About $50,000. P. J. Schneider, 13th and Race St., Gen. Mgr.

Ohio, Cincinnati—Champion Tool Wks. Co., 2420 Spring Garden Ave., plans new plant on Winton Pl. About $100,000.

Ohio, Cleveland—Osborne Screw Manufacturing Co., Perkins Power Blk., making plans factory at East 39th St. and Pennsylvania R.R. W. W. Louge, Marshall Bldg., Arch.

Ohio, Columbus—Columbus Mill and Mine Supply Co. making plans for plant on Marion Rd. Stribling & Lum, Arch. Noted June 29.

Ohio, Coshocton—Hanley Flour Mills plans to rebuild mill destroyed by fire. About $40,000. F. J. Hanley, 2d and Main St., Mgr. and Prop.

Ohio, Marietta—Marietta Mantle Co. plans new plant up Muskingum River, about $20,000.

Ohio, Springfield—Springfield Baking Co. plans new plant on Columbia St.

Ohio, Warren—West Side Electric Wks. plans new plant for lamp division.

Ind., Ft. Wayne—P. A. Moran Ice Co. soon receives bids for ice storage building. About $30,000. A. C. Bishop, Citizens' Bank Bldg., Cleveland, Arch.

Ind., Gary—Gary Foundry and Machine Co. plans to enlarge plant at Pine St. and Michigan Central R.R.

Mich., Kalamazoo—Kalamazoo Sanitary Manufacturing Co., recently incorporated with $350,000 stock, plans pottery plant.

Ill., Chicago—F. A. Anders making plans for 1-story, 100x110-ft. public garage and showroom. About $25,000. J. A. Nyden, 64 West Randolph St., Arch.

Ill., Chicago—Wells, Fargo & Co. making plans for garage. About $120,000. E. A. Stedman, 111 West Monroe St., Vice-Pres. and Gen. Mgr. H. P. Beers, 39 South Dearborn St., Arch.

Wis., Chilton—Chilton Rendering Co. to build 2-story fertilizer plant by day labor. Carr & Walsh, Green Bay, Arch.

Industrial Works (Continued)

Wis., Milwaukee—R. A. Johnston Co., Florida and Reed St., plans confectionery and candy plant. About $500,000. O. J. Kock, Secy.

Wis., Milwaukee—Maynard Steel Co., 176 Reed St., making plans for addition to foundry. About $12,000. C. J. Keller & Son, Germania Bldg., Arch.

Wis., Milwaukee—Wash-Rite Glove Co., 624 Hubbard St., made plans for 1-, 2- and 3-story, 94x139-ft. tanning plant. E. J. Frantzke, 1310 Majestic Bldg., Arch.

Wis., Sheboygan—Sheboygan Dairy Products Co. making plans for 4-story factory. Juul & Sixta, Sheboygan, Arch.

Wis., Superior—Superior Ice and Cold Storage Co. plans 4-story, 75x140-ft. ice and cold-storage plant.

Iowa, Elkader—Dittmer & Stallbaum plan public garage, about $20,000.

Minn., Duluth—Minneapolis Radiator Co. plans addition. About $40,000. J. R. McGiffert, 59th Ave., W., Pres.

Minn., Mankato—H. Madson, South 2d St., making plans for 2-story laundry. About $25,000. H. C. Gerlach, Arch.

Minn., Minneapolis—Dispatch Laundry Co., 2604-12 Stevens Ave., rejected bids for 2- and 3-story addition. About $20,000. New bids in spring. Downs & Eads, 721 New York Life Bldg., Arch.

Neb., Lincoln—F. Du Teil, 140 North O St., making plans for 2-story garage. About $25,000. J. B. Miller, 324 Little St., Arch.

Mo., St. Joseph—Larabee Flour Mills Association, Wichita, Kan., plans mill, about $500,000.

Ark., Thornton—Stout Lumber Co. plans to rebuild planing mill destroyed by fire with loss $100,000.

Tex., Dallas—Sanger Bros. plan 12-story warehouse, about $50,000.

Tex., El Paso—Empire Bottling Wks. plans, 3-story, concrete, about $40,000.

Tex., Ft. Worth—Bain Peanut Co., recently incorporated with $25,000 capital stock, plans plant. N. T. Haskins, Jr., interested.

Tex., Gainesville—Whaley, Nichols & Scott Manufacturing Co., recently organized with $100,000 capital stock, plans plant at Gainesville for manufacture of patent end gate and rod for wagons. G. T. Nichols, Gainesville, interested.

Tex., San Antonio—Gotham Film Corporation, 1457 Broadway, New York, acquired Hit Wells property about 2 mi. from San Antonio and will build film manufacturing plant. About $335,000.

Okla., Guthrie—Gulf, Colorado & Santa Fe Ry. plans roundhouse. About $250,000. F. Merritt, Galveston, Ch. Engr.

Okla., Miami—Ottawa County Ice Plant Co. making plans for improving plant. About $10,000. R. M. McCandlish Engineering Co., 725 Railway Exchange Bldg., Kansas City, Mo., Engr.

Colo., Denver—McMurtry Manufacturing Co. plans factory 26th and Blake St. About $40,000.

Idaho, Wallace—Northern Light Mining Co. plans mill, about $50,000. B. G. Harmon, Mgr.

Utah, Ogden—J. Campbell plans warehouse, about $40,000.

Calif., Long Beach—Marine Chemical Co. plans factory. About $200,000. C. T. Whittier, Pres.

Calif., Modesto—Borden Condensed Milk Co. let contract 2-story factory to E. GREEN, Modesto, about $100,000. Noted Oct. 5.

Calif., San Francisco—Pacific Coast Steel Co., Rialto Bldg., plans large addition to plant.

Sask., Moose Jaw—Saskatchewan Clay Products Co plans to improve and extend plant. About $200,000. G. H. Love, Mgr.

Ont., Ottawa—Beach Motor Co. plans garage and repair shop. About $50,000.

Ont., Ottawa—Haynes Motor Co., Albert St., plans new factory. About $50,000.

Ont., Toronto—Adams Harness Co., 204 King St., E., to build rein.-con. factory by day labor. About $75,000. Noted Aug. 24.

Bids In and Contracts Awarded

N. H., Dover—Beckwith Box Toe Co. let contract 4-story addition to E. H. FROST, West Concord St. About $25,000. Noted Sept. 7.

N. H., Henniker—W. E. Bixby & Co., Essex and Wingate St., Haverhill, let contract 2-story leather board mill to J. P. CUMMINGS CONSTRUCTION CO., Woodville.

Mass., Holyoke—G. C. Gill division of American Paper Co. let contract addition to plant to CASPER RANGER CONSTRUCTION CO.

Mass., New Bedford—Passaic Cotton Mill Co., 120 Broadway, New York, let contract mill at New Bedford to F. H. SMITH, New York. Noted Oct. 12.

Mass., Worcester—Wright Wire Co. let contract addition to plant to E. D. WARD, 82 Foster St., about $20,000.

R. I., Cranston—Rhole Island Co. let contract addition to car bar to FAMUGLIETTI BROS. CO., 166 Broadway, Providence, about $40,000.

Conn., Bridgeport—G. B. Clark, Broad St., let contract storehouse to DOWLING & BOTTOMLEY CO., about $29,000.

Conn., Hartford—T. B. Simonds Co., 81 Laurel St., let contract addition to printing plant to SINNOTT BROS., 30 Harbison Ave.

N. Y., Fairport—American Can Co., 120 Broadway, let contract factory and warehouse to TURNER CONSTRUCTION CO., Elliott Sq., Buffalo, about $50,000.

N. Y., New York—(Brooklyn)—Bay Ridge Ice Manufacturing Co. let contract addition to plant on 62d St. to J. AUER & SONS, 648 Lexington Ave.

N. Y., New York—(Brooklyn)—A. Chapal, 413 Willoughby Ave., let contract alterations and addition to plant at Willoughby Ave. and Spencer St to FRASER & BERAU, 749a Macon St., about $15,000.

N. Y., New York—(Brooklyn)—S. Weisglass let contract factory to M. TARTASKY, 1935 Bedford Ave., about $75,000.

N. Y., New York—(Manhattan)—S. Litchenstein Estate, 105 Barclay St., let contract 4-story, 50x96-ft. garage to V. LYNCH & CO., 13 Park Row, about $65,000. Noted Aug. 24.

N. Y., New York—(Queens)—Ranier Motor Corp., Broadway and 51st St., Manhattan, let contract plant on edge of Flushing-College Point meadows to J. GEISER & SON, 561 11th Ave., Long Island City, about $75,000. Noted Oct. 19.

N. Y., Norwich—Norwich Wire Basket Co. let contract 2-story factory to E. B. MILLS, about $15,000. Noted Sept. 30.

N. Y., Rochester—Gleason Tool Works let contract 1-story addition on University Ave. to FERGUSON STEEL AND IRON CO., Buffalo, about $11,000. Noted Oct. 19.

N. Y., Sonyea—Craig Colony for Epileptics let contract cold-storage plant to L. J. HELD, 153 Plymouth Ave., Albany. Noted Sept. 28.

N. J., Elizabeth—P. Breidt City Brewing Co. let contract 2-story, 80x188-ft. bottling house to C. FLOCKEN, 681 Newark Ave.

N. J., Elizabeth—S. I. Moore & Sons Corp., Front St., let contract 2-story carpenter shop to H. WILHELMS, 803 East Jersey St., about $80,000.

N. J., Hoboken—L. Mersereau let contract 2-story addition to plant 1208 Willow Ave. to be leased by New York Bottlers' Supply Manufacturing Co. to C. WHAN, 1216 Park Ave. About $10,000.

N. J., Kearney (Arlington post office)—Egyptian Lacquer Manufacturing Co., 152 Front St., Manhattan, let contract seven 2-story factory buildings to TURNER CONSTRUCTION CO., 11 Broadway, Manhattan.

N. J., Mays Landing—Mays Landing Water Power Co. let contract 1-story, 100x100-ft. addition to factory to ABERTHAW CONSTRUCTION CO., 27 School St., Boston.

N. J., Montville—Montville Finishing Co. let contract addition to J. J. O'LEARY CO., 500 Bloomfield Ave., Passaic, about $10,000.

N. J., Newark—G. Krueger Brewing Co. let contract alterations to bottling plant on Belmont Ave. to A. SCHUMACHER, 267 South 6th St. About $15,000.

N. J., Newark—Lister Agricultural Chemical Wks. plans to build Bone Black Bldg. No. 5 by day labor. About $10,000.

N. J., Newark—Oxweld Acetylene Co. let contract foundry and garage at 646 Frelinghuysen Ave. to F. KILGUS, 13 South 6th St., about $14,000.

N. J., Newark—Sun Co., Finance Bldg., Philadelphia, let contract garage, warehouse and office building on Newark Meadows to H. M. DOREMUS & CO., 36 Orange St.

Penn., Greensburg—Pennsylvania R.R. let contract addition to freight warehouse and office building to H. L. KREUSLER, Pittsburgh, about $50,000.

Penn., Philadelphia—Cohlman & Sons, Inc., let contract 3-story factory to J. E. WIGGINS & CO., Heed Bldg. About $25,000. Noted Oct. 5.

Penn., Philadelphia—W. S. Shields let contract garage 43d St. and Woodland Ave. to STANDARD CONSTRUCTION CO., 822 Drexel Bldg., about $30,000.

Md., Baltimore—Enterprise Wire and Iron Wks., 1516 North Regester St., let contract factory to H. L. MAAS, 1119 Ensor St.

Md., Canton—(Baltimore post office)—Coco Nut Oil Products Co. let contract plant to WEST CONSTRUCTION CO., American Bldg., Baltimore, about $150,000.

Md., Sparrows Point—Bethlehem Steel Co. let contract 2 billet mills to MORGAN CONSTRUCTION CO.

Va., Petersburg—Rogers & Madison Trunk Corporation let contract 2-story factory to HARRISON CONSTRUCTION CO., Petersburg, about $14,000.

Va., Petersburg—Stockdell-Myers Co., North Sycamore St., let contract 3-story warehouse to HARRISON CONSTRUCTION CO., Petersburg.

Va., Richmond—E. A. Saunders, Jr., let contract 5-story warehouse to J. W. BEASLEY, Richmond, about $80,000.

N. C., New Rockford—E. Salyards & Co., 505 Bd. Trade Bldg., Duluth, let contract grain elevator to HICKOK CONSTRUCTION CO., 818 Flour Exchange, Minneapolis.

S. C., Carhartt—(Rockhill post office)—H. Carhartt, 10th and Michigan St., Detroit, let contract 1st unit of cotton mill to SELLERS & PAGGETT, Columbia. Noted Sept. 7.

S. C., Ft. Mill—Ft. Mills Manufacturing Co. let contract addition to J. A. GARDNER, Charlotte, N. C. Noted Aug. 17.

Ga., Augusta—G. R. Lombard let contract warehouse to McKENZIE BUILDING CO., Augusta, about $11,500.

Ohio, Akron—Burkhardt Brewing Co., Chicago, let contract bottling plant to CARMICHAEL CONSTRUCTION CO., Hamilton Bldg., Akron, about $75,000.

Ohio, Cleveland—American Steel and Wire Co., Western Reserve Bldg., let contract addition to plant on Aetna Rd. to H. KOPPERS CO., Pittsburgh, about $100,000. Noted June 22.

Ohio, Cleveland—City Ice Delivery Co., 908 New England Bldg., let contract additions to YOUNGER & FARMER, 1670 Crawford Rd., about $35,000. Noted Oct. 12.

Ohio, Cleveland—H. F. Neighbors let contract garage and service station East 30th and Chester St. to W. DUNBAR & CO., 8209 Cedar Ave., about $45,000. Noted Sept. 28.

Ohio, Coshocton—Coshocton Glass Co. let contract addition to plant to W. S. TISH, Coshocton. About $150,000. Noted Oct. 26.

Ohio, Elyria—Western Automatic Machine Screw Co. let contract plant to J. A. HEWITT, Elyria, about $100,000.

Ohio, Springfield—W. C. Downey Co. let contract plant on Walnut St. to G. MUSTAIN.

Ohio, Springfield—Perfection Laundry, Main and Race St., let contract addition to P. YEAZELL, 2233 Columbus Ave. About $12,000. Noted June 22.

Ind., Indianapolis—Frest-O-Side Co. to build 3-story, 100x160-ft. and 2-story 20x100-ft. addition to factory by day labor. O. H. Spinner, Speedway near Indianapolis, Supt.

Mich., Detroit—Air Reduction Co., Hartwick, near Clay Ave., let contract factory and garage to H. D. BEST CO., 52 Vanderbilt St., about $20,000.

Mich., Detroit—Detroit Metallic Casket Co., Mack and Gratiot Ave., let contract factory to WINKLER & AUCH, 923 Meldrum Ave. About $40,000. Noted Oct. 12.

Mich., Detroit—Fisher Body Co., Paquette Ave. and St. Antoine St., let contract 5-story addition to WALBRIDGE & ALDINGER, Penobscot Bldg. Noted Oct. 26.

Ill., Chicago—Kling Bros. Engineering Wks. to build 1-story, 160x242-ft. and 2-story, 150x248-ft. factory and machine shop by day labor., C. Kling, 1302 Kingsbury St., Pres.

Ill., Chicago—Schweitzer & Conrad let contract 1-story, 100x145-ft. factory to T. GAGE & CO., 111 West Monroe St.

Ill., Chicago—C. Wouters, 2537 South Wabash Ave., let contract 1-story public garage to KEYSTONE ENGINEERING AND CONSTRUCTION CO., 133 West Washington St. About $20,000.

Ill., North Chicago—McCernan Kitchen Cabinet Co. let contract plant to C. W. PENCE, Waukegan, about $35,000.

Ill., Oak Park—Natoma Dairy Co. let contract bottling plant and boiler plant to STODDARD CONSTRUCTION CO., 300 Fisher Bldg., Chicago, about $20,000.

Wis., La Crosse—H. Dahl, Front and Main St., let contract repair shop and garage to N. A. MAGNUSSEN, 711 Market St. About $20,000.

Wis., Milwaukee—A. J. Linderman & Hooverson Co., Cleveland St. and 1st Ave., let contract masonry 6-story addition to R. L. REISINGER CO., First National Bank Bldg. About $90,000. Noted Oct. 5.

Wis., Milwaukee—Neacy & Read Investment Co. let general contract 2- and 3-story garage and machine shop to RAULF CO., 52 Patton Bldg. Noted Jan. 20.

Wis., West Allis—Pressed Steel Tank Co. let contract plant to BADGER CONSTRUCTION CO., 97 Wisconsin St.

Iowa, Sheldon—Farmers' Creamery Association, Hull, let contract creamery to GEIGER CONSTRUCTION CO., Sheldon, about $10,000.

Minn., St. Paul—H. L. Collins Co. plans addition by day labor, Hampden and Myrtle Ave. About $10,000.

Minn., St. Paul—Northern Malleable Iron Wks. let contract foundry on Wells St. to BUTLER BROS. BUILDING CO., 1000 New York Life Bldg.

N. D., Jamestown—Midland Continental R.R. let contract machine shops and roundhouse to SIEMS, HELMS & SCHAFFNER CO., 514 Germania Life Bldg., St. Paul, about $10,000. Noted Oct. 19.

Mont., Richey—Farmers' Equity Elevator Co. let contract grain elevator to HICKOK CONSTRUCTION CO., 818 Flour Exchange, Minneapolis.

Mo., Springfield—Springfield Creamery Co. let contract addition to plant, Mill and Dollison St., to UNITED IRON WORKS CO., Springfield, about $25,000. Noted Sept. 28.

Ark., Pine Bluff—St. Louis Southwestern Ry. let contract 24-stall roundhouse at Pine Bluff to W. FELS. Noted Oct. 26.

Tex., Dallas—Buick Motor Co. let contract assembling plant at Young and Browder St. to GOWINE & STEARMAN, 1915½ Main St., about $25,000. Noted Sept. 21.

Tex., Elgin—Round Bale Gin Co. let contract plant to O. G. BURNETT, about $10,000.

Tex., Houston—Union Compress and Warehouse Co. let contract cotton shed and warehouse to CENTRAL CONTRACTING CO., Houston, about $35,000. Noted Nov. 2.

Industrial Works (Continued)

Calif., San Francisco—B. C. and I. Brown let contract 3-story building to be leased by Newman Furniture Co. to McDONALD & KAHN, Rialto Bldg., San Francisco, about $75,000.

Calif., Tracy—Whitehall Estates let contract beet sugar plant to DYER & CO., Cleveland, about $1,000,000. Noted Sept. 21.

FEDERAL GOVERNMENT WORK

Proposed Work

Mass., Ft. Warren—Water System—Quartermaster, Coast Defense of Boston, Ft. Warren, receivnig bids Nov. 21, extension, at Ft. Standish, Boston Harbor.

Penn., Philadelphia—Ventilating System—Bureau of Yards and Docks, Navy Dept., Washington, D C., receiving bids Nov. 20, in Buildings Nos. 17, 25 and 26, Navy Yard, Philadelphia.

Va., Norfolk—Buildings—Bureau of Yards and Docks, Navy Dept., Washington, receiving bids Nov. 11 for student officers' quarters, Navy Yard. F. R. Harris, Ch. Noted Oct. 12.

Ohio, Zanesville—River Improvements—U. S. Engineer Office, 2d Dist., P. O. Box 716, Cincinnati, receiving bids Dec. 11 for extension below abutment at Dam No. 4, part of guide wall and guard wall at Lock No. 8 and extension of revetment in canal at Lock No. 10, Muskingum River.

Mo., Bonne Terre—Post Office—Treas. Dept., Office Superv. Arch., Washington, D. C., receiving bids Dec. 21.

Mo., St. Louis—Levee Work—Mississippi River Comn., 1311 International Life Bldg., St. Louis, receiving bids Dec. 4, 100,000 cu.yd. in East Cape Girardeau and Clear Creek Drainage Dist., Ill.

Ark., Eureka Springs—Post Office—Treas. Dept., Office Superv. Arch., Washington, D. C., receiving bids Dec. 11.

Colo., Denver—Needle Valves—U. S. Rec. Ser., Denver, receiving bids Dec. 12, North Tunnel Roosevelt Dam, Salt River Project. A. P. Davis, Ch. Engr. Noted Aug. 31.

Bids In and Contracts Awarded

Del., Reedy Island—Wharf Improvement—Government received bids, repairing at U. S. Quarantine Sta., Reedy Island, from Newport Contracting and Engineering Co., Newport News, Va., $9,757; H. C. Clark, Delaware City, Del., $11,878. Noted June 22.

N. Y., New York—Crane—Bureau of Yards and Docks, Navy Dept., Washington, received bids, one 20-ton locomotive crane, Navy Yard, New York, (a) Government specifications, (b) bidders' specifications; Link-Belt Co., Chicago, Ill., (a) $12,893; (b) $10,853; Industrial Works, Bay City, Mich., (b) $11,500; Browning Co., Cleveland, Ohio, (a) $10,427, (b) $13,068. Noted Sept. 28.

D. C., Washington—Wall—Bd. Comrs., Room 509 Dist. Bldg., received bids for portion of wall on Canal Rd between Aqueduct Bridge and Foundry Branch, (1) excavation above elevation, (2) excavation below elevation, (3) rock excavation above elevation, (4) rock excavation below elevation, (5) concrete above elevation, (6) concrete below elevation, from W. D. Murray, Washington, D. C., (1) $1.67, (2) $2.37, (3) $3.50, (4) $5, (5) $6.80, (6) $9.75; Thomas Sheahan, Hagerstown, Md., (1) $1.75, (2) $3, (3) $3, (4) $5, (5) $8.50, (6) $9.75; Davis Construction Co., Washington, D. C., (1) $2 79, (2) $2.79, (3) $6.99, (4) $6.99, (5) $6.99, (6) $6.99. Noted Oct. 12.

Penn., Philadelphia—Dredging, Etc.—U. S. Engineer Office, Philadelphia received low bids, Delaware River, Philadelphia Harbor (a) Sect. A, (b) Sect. B, from River and Harbor Improvement Co., Market and Merchants Bl., Philadelphia, (a) $0.49, (b) $0.46; Rickards Dredging Co., Real Estate Trust Bldg., Philadelphia, (a) $0.32, (b) $0.285; Canal Construction Co., 150 Nassau St., New York, (a) $0.47. Noted Oct. 12.

Penn., Philadelphia—Towers—Bureau of Yards and Docks, Navy Dept., Washington, received low bids for two 300-ft. steel towers (a) price per lb. steel in accordance with Government specifications, (b) price per lb. steel taken from stock, (c) insulators, winches and rope, lightning protection, and snatch blocks, etc., (d) foundations, from American Bridge Co., Philadelphia, (a) 8¼c., (b) 8¼c., (c) $7,420; Pittsburgh-Des Moines Steel Co., Pittsburgh, (a) 8.3c., (b) 8.53c., (c) $3,215, (d) $6,580; Penn Bridge Co., Washington, D. C., (a) 8.7c., (b) 9.1c., (c) $4,225, (d) $5,925. Noted Oct. 5.

N. C., Burlington—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, received low bids (a) limestone. (b) sandstone from McAdams & Mitchell, Burlington, (a) $58,800; Olin Gerlach, Fronstburg, Md., (a) $65,449, (b) $67,000; Richardson Construction and Engineering Co., Bainbridge, Ga., (a) $61,700; (b) $62,500. Noted Sept. 28.

Fla., Key West—Radio Buildings—Bureau of Yards and Docks, Navy Dept., Washington, received only bid from Newport Engineering and Contracting Co., Newport News, Va., $19,736. Noted Oct. 12.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., Albany—(Official)—Barge Canal Work—W. W. Wotherspoon, State Supt. Pub. Wks., Capitol, Albany, receiving bids Nov. 24 for Contract No. 150, Erie Canal, Sect. 2, concrete apron below headgates of Vischer Ferry dam. About $23,300. (See adv.)

N. Y., New York—(Brooklyn)—Dredging—L. H. Pounds, Boro. Pres., Room 2, Borough Hall, receiving bids Nov. 15 for dredging Newtown Creek Canal at Metropolitan Ave. Basin near intersection Metropolitan and Scott Ave., also dredging Wallabout Canal from Hewes St., to point 1,450-ft. north Hewes St.

N. J., Trenton—(Official)—Dredging—Bd. Commerce and Navigation, State House, receiving bids Nov. 20 for dredging section proposed inland waterway connecting Barnegat Bay and Manasquan River. B. F. Cresson, Jr., Ch. Engr. (See adv.)

Fla., West Palm Beach—Canals—Southern States Land and Timber Co. plans canals through about 10,000 acres. J. M. Bruguieres, Res. Dir.

Ind., Terre Haute—Drainage—Prairie Creek Levee Assoc. asked Comrs. Vigo County permission to issue $37,318 bonds for drainage systems south part Vigo County and north part Sullivan County. W. Riggs, Terre Haute, interested.

Iowa, Des Moines—Ditch—Polk County receiving bids Nov. 20 for Ditch No. 21. About $21,672. F. J. Alber, Des Moines, Audr.

Minn., Breckenridge—Ditch—Wilkin County receiving bids Nov. 17 for Ditch No. 29, about $13,036. P. E. Truax, Breckenridge, Audr.

Minn., Chaska—Ditches—McLeod and Craver Counties to let contract Ditch No. 5 about Dec. 1; Ditch No. 4 about Jan. 1. J. B. Connolly, Chaska, County Audr.

Minn., Henderson—Ditches—Sibley County to let contracts Ditches Nos. 7 and 8 about Jan. 17. F. Hoppenstedt, Henderson, Audr.

Minn., Henderson—Ditch—Sibley County to let contract Ditch No. 11 between McLeod, Sibley and Kenville Counties about Jan. 1, $100,000. F. Hoppenstedt, Henderson, Audr.

Minn., Ivanhoe—Ditch—Lincoln County receiving bids Nov. 21 for Ditch No. 32, about $6,243. K. A. Henson, Ivanhoe, Audr.

Minn., Litchfield—Ditch—Meeker and Kandiyohi Counties plans, to empty into Crow River, about $206,026. Address County Clk., Litchfield.

Minn., Mankato—Ditch—Blue Earth County receives bids about Jan. 1 for Ditches Nos. 47 and 48. C. L. Kennedy, Mankato, Audr.

Mo., Poplar Bluff—Drainage—Inter-River Drainage Dist., Butler County, soon receives bids, about 20,000 acres. Morgan Engineering Co., 608 Goodwyn Institute Bldg., Memphis, Tenn., Engr.

Tex., Harlingen—Irrigation—Cameron County Irrigation Dist. No. 1 received no bids for canals and locks. Noted Sept. 28.

Calif., Alturas — Irrigation — Potter-Huffman Land and Live Stock Co. making plans for 2 flood-water storage reservoirs in Modoc County. A. M. Green, Alturas, Engr.

Calif., Paradise—Irrigation—Paradise Irrigation Dist. made plans. I. F. Goodner, Engr. W. T. Ogden, Dir. Noted Apr. 6.

Calif., Redding—Irrigation—E. G. Hopson, Portland, Ore., applied to State R.R. Comn. for permission to build irrigation system in Shasta County. About $100,000.

Calif., San Bernardino—Irrigation—C. F. Guthridge, Los Angeles, interested in project to irrigate about 100 acres in Little Bear Valley and Victor Valley.

Calif., Turlock—Irrigation—Turlock Irrigation Dist. plans to repair canals and replace wooden structures with concrete. About $162,500. R. V. Meikle, Turlock, Engr.

Bids In and Contracts Awarded

Ga., Watkinsville—Ditch—Rose Creek Drainage Comrs., Oconee County, let contract 6 mi. drainage ditch to THOMPSON & MOSELEY, Banner Bldg., Greensboro, N. C.

Ky., Calhoun—Ditch—McLean County let contract ditch and arms Drainage Dist. No. 5 to C. D. MITCHELL, Reeds, $9,616.

Ohio, Lancaster—Dredging—Fairfield and Perry Counties let contract dredging Rush Creek to GILMORE BROS., Toledo, about $104,750. Noted Sept. 28.

Minn., Anoka—(Official)—Ditch—Anoka County let contract Ditch No. 57 to W. R. EWING, Merchants' Loan and Trust Bldg., Chicago, about $19,000. Noted Dec. 16.

Minn., Henderson—Ditch—Sibley County let contract Ditch No. 6 to C. A. WALB, La Grange.

Minn., Marshall—Ditches—Lyon County let contract Ditch No. 24 to A. H. HENDRICKSON, Askox, about $8,387; Ditch No. 27, N. L. NEILSON, FULDA, about $7,850.

Minn., St. Peter—Ditch—Nicollet County let contract Ditch No. 7 to W. J. GLEASON CO., Aikin, $38,451.

Neb., Hershey—Paxton & Hershey Water Co. let contract widening and cleaning about 6 mi. ditch to F. PALMER.

Ark., Pine Bluff—Reclamation—Drainage Dist. No. 6, known as Swan Lake Dist., let contract to STERNBERG BROS., St. Louis, about $18,000. Noted June 29.

Calif., Anderson—Irrigation—Anderson-Cottonwood Irrigation Dist. let contract concrete lining for tunnel to A. Carlson. Noted Apr. 20.

Calif., Newark—Ditches—Arden Salt Wks., Dumbarton Harbor, let contract laying out ditches and salt ponds, also 200,000 yd. levee to P. H. HOARE, Hayward.

MISCELLANEOUS

Proposed Work

Maine, Bath—Dry Dock, Etc.—Texas Co., 17 Battery Pl., New York, plans dry dock and machine shop.

Maine, Brownville Junction—Elimination of Grade Crossings—Canadian Pacific Ry., Eastern Lines, plans at Brownville Junction. J. M. R. Fairbairn, Montreal, Que., Asst. Ch. Engr.

Maine, Portland—Coal Hoisting Tower and Wharf—Pocahontas Fuel Co. plans. A. L. Alexander, 131 State St., Boston, Mgr. H. S. Adams, 101 Ames Bldg., Boston, Consult. Engr.

Mass., Newton — Fire Station—City making plans. L. H Bacon, 50 Bromfield St., Boston, Arch. W. R. Forbush, West Newton Dist., Comr. Pub. Bldgs.

Mass., Quincy—Harbor Improvements—Massachusetts Waterways and Pub. Lands Comn. plans, Quincy Harbor. Project includes dredging Fore River and new dock. City will be asked to contribute $100,000 toward cost. P. F. O'Brien, City Engr.

N. Y., Bronxville—Driveway—Bronx Pkway. Comn. plans 40-ft. driveway from Palmer Ave. Yonkers to White Plains, including dam on Lake Ave., Tuckahoe, and bridges.

N. Y., New York—(Bronx)—(Official)—Coal Pocket—New York Central R.R., 70 East 45th St., receiving bids, 1-story, 20x30-ft., rein.-con., Sedgewick Ave. and 165th St. About $5,500. A. F. Halderman, 70 East 45th St., Arch.

N. J., Elizabeth—Fire House—City making plans. About $20,000. L. Zuien, Jr., 229 Broad St., Arch.

N. J., Hoboken—Fire House—City making plans, 212 Park Ave. Fagan & Briscoe, 95 River St., Arch. J. O. Whitmore, City Engr.

Penn., Scranton—Engine House—City made plans, about $10,000. J. S. Duckworth, Coal Exchange Bldg., Arch.

Penn., South Fork—Engine House—Pennsylvania R.R. made plans, 1-story, 67x146-ft. About $10,000. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Va., Newport News—Piers—Chesapeake & Ohio Ry. to rebuild Pier No. 3 and improve Pier No. 12. About $50,000. F. I. Cabell, Richmond, Ch. Engr.

W. Va., Martinsburg—Mausoleum—Central Mausoleum Co., No. 2, Ramsey Bldg., Martinsburg, and Carlisle Penn., plans, Green Hill Cemetery.

Fla., Clearwater—Park Improvements—City voted $10,000 bonds. W. S. Gregory, City Clk.

Fla., Ormond—Wharf—City receiving bids Nov. 15. C. M. Rogers, Daytona, Engr. Noted Oct. 5.

Ohio, Cleveland—Fire Station—City making plans, Carnegie Ave., about $25,000. F. H. Betz, 6th Floor, City Hall, Arch. Noted Nov. 2.

Ohio, Cleveland—Fire Station—City making plans, Scranton Rd., Co. No. 21, 2-story, about $35,000. F. H. Betz, 6th Floor, City Hall, Arch.

Ind., Peru—Levee and Retaining Wall—City made plans, 19,430 cu.yd. earth, 1,400 lin.ft. 6-ft., 1,500 lin.ft. 7-ft., 2,300 lin.ft. 8-ft. and 40 lin.ft. concrete wall for levee and retaining wall. E. B. Lockridge, Engr.

Mich., Battle Creek—Road Machinery—Calhoun County Bd. recommended appropriation of $12,000 to purchase road machinery. Address County Clk., Battle Creek.

Ill., Galesburg—Subway—Chicago, Burlington & Quincy Railroad Co. making plans, East Main St. T. E. Calvert, 547 West Jackson Blvd., Chicago, Ch. Engr.

Mo., Richmond—Statue—Doniphan Statue Com. receiving bids Dec. 14 for bronze statue of Gen. A. W. Doniphan. About $5,000. L. T. Childs, Secy. Com.

Ark., Perry—Flood Prevention—Parkes Engineering Co, Pine Bluff, submitted report estimating cost draining cypress brake north Perry, draining lake, building flood gate and levee long Arkansas River at $40,000.

Tex., Galveston—Bulkhead—City plans, concrete, along crest of seawall improvement fill, between 16th and 17th St. About $7,000. A. T. Dickey, City Engr.

Wash., Seattle—Dock—City making plans, 75x100 ft., about $14,000. C. D. Calley, 1525 32d Ave., Bridge Engr.

Ore., Baker—Flood Prevention—City making plans, Powder River. E. A. Whittier, Baker, Comr.

Calif., Olive—Piling—City let contract about 6 mi. piling with wings, barbed wire, etc., about January, $31,000. J. L. McBride, Santa Ana, Engr.

Calif., Palermo—Subway—Chamber of Commerce petitioned supervisors of Butte County to build under tracks Western Pacific Ry.

Calif., Santa Ana—Levee—West Orange Protective Dist. voted $31,000 bonds for levee on east bank of Santa Ana River, about 7 mi. Address F. Eckgoff, Santa Ana, Dir. Noted Aug. 24.

Calif., Tracy—Fire House—City plans, 1- and 2-story, brick. Sala & Mayo, Commercial Savings Bank Bldg., Stockton, Arch.

Bids In and Contracts Awarded

Mass., Boston—Seawall—Park and Recreation Dept. received bids, Savin Hill, from H. Nawn

Miscellaneous (Continued)

Contracting Co., Roxbury, $102,890; Coleman Bros., Chelsea, $116,550; M. Meehan, Jamaica, $222,880.

Mass., Hull—Seawall—Metropolitan Park Comn., 14 Beacon St., Boston, let contract, Nantasket Beach Reserveration to H. NAWN CONTRACTING CO., 82 Savin St., Roxbury.

Conn., New Britain—Retaining Wall—City let contract, Shuttle Meadow Ave., to M. A. BAKER.

N. Y., Willard—(Official)—Fire Escapes—State Hospital Comn., Capitol, Albany, let contract, Willard State Hospital, to WANDER IRON WORKS, 508 East 1177th St., New York. Noted Sept. 14.

Penn., Jerome Junction—(Hollsopple post office)—Tipple—Kennerly Coal Co. let contract to HESS BROS., Johnstown.

Penn., Union City—Elimination Grade Crossing—Erie R.R. let contract to R. GRACE CONTRACTING CO., Mellon Bank Bldg., Pittsburgh. About $600,000.

La., New Orleans—Levee Work—Forest Construction Co., at 19.90c. per cu.yd. low bidder 11,000 cu.yd. Concordia Parish; R. T. Clark, at 22.90c. for 120,000 cu.yd. Henderson Levee; P. M. Adena at 23.89c. for 10,000 cu.yd. Paquemines Parish, also 7,100-ft. wooden revetment, $1.04¾ per lin.ft.

Ind., Indianapolis — Levee Improvement — Bd. Pub. Wks. let contract flood levee along east bank White River from Maryland St. to Washington Ave. to PATTERSON, NORTON & CO., Kansas City, Mo., about $95,500. Noted Oct. 19.

Mont., Great Falls—Subway—Great Northern Ry. let contract to GRANT, SMITH & CO., 1501 Pioneer Bldg., St. Paul.

Tex., Orange—Wharf and Bulkhead—Low bidders were: W. Moore & Son, Texas City, $40,703; Spencer & Howe Construction Co., Port Arthur, $45,147; J. Jacobson, Texas City, $45,573.

Calif., San Rafael—Creek Improvements—Marin County let contract to BAKER & MARTIN, Sheldon Bldg., San Francisco, 32c. per cu.yd.

B. C., Vancouver—Freight Sheds—Canadian Northern Ry. let contract to NETTLETON, BRUCE & EACHBACH, American Bank Bldg., Seattle, about $125,000.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Mass., Worcester—City plans addition to Belmont Hospital. About $75,000.

Conn., Meriden—Y. M. C. A. plans new building. About $100,000. Hussey & Shattuck, Chicago, Arch.

Conn., Waterbury—Church—First Church of Christ Scientist plans, Mitchell and Holmes Ave.

N. Y., Buffalo—New York Central R R. made plans passenger terminals at Buffalo. About $11,000,000. G. K. Kittredge, Grand Central Terminal, New York, Ch. Engr. Noted Oct. 19.

N. Y., New Hampton—(Official)—City receiving bids for reformatory building, 100x300-ft., brick. About $200,000. C. B. Meyers, 1 Union Sq., New York, Arch.

N. Y., New York—(Manhattan)—(Official)—Kalt Lumber Co., 314 East 64th St., receiving bids for 2-story, 40x70-ft. office building. About $40,000. BaBilenger & Perot, 1328 Broadway, Arch.

N. Y., New York—(Manhattan)—(Official)—K. M. Eyland, 64 Broad St., receiving bids for building at Beekman St. About $65,000. Taylor & Mosely, 40 Wall St., Arch.

Penn., Coatesville—Hotel Worth Bros. plan, 4-story, brick and stone. W. Lesley Walker, 103 Park Ave., New York, Arch.

Penn., Philadelphia — Art Gallery — Horage Trumbauer, Arch., making plans, Fairmount Park, Green St. About $200,000.

Penn., Philadelphia — Clubhouse—Germantown Boy's Club plans, 47 West Penn St. About $40,000.

Penn., Philadelphia—School—City made plans, 3-story, 84x117-ft., Sartain and Moore St. J. Horace Cook, Arch.

Penn., Pittsburgh—Atlantic Refining Co. plans office building at Grand Blvd. About $1,000,000. W. G. Wilkens Co., Arch.

Penn., Reading—American Casualty Co. plans building at 6th and Washington St. About $65,000. George L. Gerhard & Son, Arch.

D. C., Washington—Theater—Thomas Moore making plans. About $50,000.

Va., Charlottesville—Club House—University of Virginia made plans, 2½-story, 100x150-ft. About $40,000. Ferguson, Carrow & Wrenn, Virginia National Bank Bldg., Norfolk, Arch. Noted Oct. 19.

W. Va., Beckley—School—Bd. Education receiving bids Nov. 14, 3-story, 99x134.10-ft. About $55,000. M. R. Jennings, Secy. W. H. St. Clair, Charleston, Arch. Noted Apr. 13.

W. Va., Charleston—High School—Bd. Education voted $70,000 bonds, 2-story, Lincoln School Grounds. F. L. Packard, Hayden Bldg., Columbus, Ohio, Arch.

N. C., Rockingham—Court House—Richmond County making plans. About $75,000. Address Clk., Wentworth. Noted Oct. 19.

N. C., Vanceboro—Hospital—F. L. Potts plans.

N. C., Winston-Salem—Theater—B. P. O. E. and Rotary Club plans.

Ga., Atlanta—Y. M. C. A. made plans for association building. About $100,000. W. White, Chn. Bldg. Com. Noted Sept. 21.

Ga., Griffin—(Official)—School—City receiving bids Nov. 25. Noted Oct. 5.

Fla., Clearwater—Court House and Jail—Pinellas County receiving bids Nov. 21. F. J. Kennard, American National Bank Bldg., Tampa, Arch. Noted Feb. 17.

Fla., St. Augustine—Hospital—Mary L. Flagler to rebuild. Recently destroyed by fire.

Ala., Mobile—Hammel plans 3-story brick building at Government and Conception St.

Miss., Columbus—High School—City receiving bids Dec. 7. About $50,000. P. J. Krouse, Arch. Noted July 20.

La., Baton Rouge—J. Simon making plans for 3-story, brick and terra cotta building. H. Charlton, Jr., Baton Rouge, Arch.

La., New Orleans—Jerusalem Temple, Nobles of Mystic Shrine, soon receives bids for building, at Clio and St. Charles Ave. About $150,000. W. Weil and S. Stone, New Orleans, Arch. Noted June 29.

Ky., Paducah—School—City to vote on $270,000 bonds in November.

Ohio, Columbus—Y. M. C. A. soon receives bids for addition. Richards, McCarty & Bullford, Hartman Bldg., Arch.

Ohio, Defiance—High School—Bd. Education making plans, 3-story, 200x250-ft. About $200,000. McLaughlin & Hulsken, Savings Bank, Lima, Arch. Noted Aug. 24.

Ohio, Fairlawn—School—City made plans. R. C. A. Monahan, Arch.

Ohio, Hamilton—Temple—Hamilton Lodge No. 39, Knights of Pythias, making plans. About $65,000 George Barkman, Arch.

Ohio, Hilliards—Grade and High School—Norwick Township receiving bids Nov. 17, 2-story. F. L. Packard, Heydon Bldg., Columbus, Arch. Noted Oct. 26.

Ohio, Lancaster—School—Liberty Union Village School Dist., Fairfield County, receiving bids Nov. 16. J. W. Whittus, Pres. Bd.

Ohio, Lima—Y. M. C. A. soon receives bids for 4-story, 75x160-ft. About $125,000. Shattuck & Hussey, 19 La Salle St., Chicago, Arch.

Ohio, Portsmouth—(Official)—Security Savings Bank and Trust Co. receiving bids Dec. 1 for 3-story, bank, store and office building. About $50,000. Ritter & Bates, 45 First National Bank Bldg., Arch. Noted Oct. 26.

Ohio, Toledo—Maternity and Children's Hospital, Summit St. and Stickney Ave., making plans for addition. About $250,000.

Ohio, Warrensville—School—Bd. Education receiving bids Nov. 20 for addition. About $50,000. G. W. Skwiner, Clk.

Ind., Gary—Home—South Shore Order of Eagles, Miller, made plans, in Gary. About $50,000.

Ind., Sullivan—Hospital—Sullivan County Hospital rejected bids. New bids. Noted Sept. 28.

Mich., Port Huron—Home—Women's Benefit Association made plans. About $350,000.

Ill., Springfield—Labor Temple—A. Walker, Pres. Illinois Federation of Labor, plans. About $75,000.

Wis., Ladysmith—Hospital—Mantellate Sisters' Hospital receiving bids in February for 3-story, 48x128-ft. About $75,000. H. F. Liebert, Marathan County Bank Bldg., Wausau, Arch. Noted Sept. 28.

Wis., Milwaukee—Hospital—Columbia Hospital making plans. About $100,000. Smith, Garden & Martin, 104 South Michigan Ave., Chicago, Ill., Arch.

Wis., Platteville—High School—Bd. Education retained Parkinson & Dockendorf, Arch., Linker Bldg., La Crosse, to make plans. About $100,000.

Wis., Plymouth — Dormitory — Mission House Academy College of Theological Seminary of Reformed Church, Franklin, R. F. D. 29, Plymouth, retained A. Vitz, Arch., to make plans. About $100,000. L. D. Benner, 17[illegible] North 5th St., Sheboygan, Financial Secy.

Wis., Watertown—Hospital and Sanitarium—St. Mary's Hospital making plans for 4-story, 50x208-ft. H. J. Gaul, 111 West Washington St., Chicago, Arch.

Iowa, Des Moines—Baptist Institute of Learning plans Union College. Coolidge & Hodgdon, 134 South La Salle St., Arch.

Iowa, Indianola—High School—City plans election to vote on $150,000 bonds.

Iowa, Mason City—School—City making plans for 2½-story, 63x113-ft., rein.-con. Bids to be received in December. About $40,000. E. R. Bogardus & Son, 119½ North Federal Ave., Arch.

Iowa, Sioux City—Bentler & Arnold, 609 Security Bldg., making plans, 2-story, 100x150-ft., brick and rein.-con. business building at 7th and Pierce St. About $75,000.

Minn., Comfrey—High School—School Dist. No. 49 soon receives bids, 2-story, 60x120-ft. About $40,000. Noted Nov. 2.

Minn., Jordan—Jail—City rejected bids. New bids. F. D. Herder, City Clk.

Minn., Minneapolis—Office—Minneapolis Builders' Exchange making plans, 12-story, terra cotta and brick, 2d Ave., S. Bertrand & Chamberlin, Bank of Commerce Bldg., Arch. About $275,000. Noted Oct. 26.

Minn., Owatonna—High School—Bd. Education approved plans. About $150,000. G. B. Bennet, Owatonna, Clk. Noted Oct. 19.

Minn., Willmar—Hotel—Merchants-Central Hotel plans addition. R. C. Buckley, 252 Plymouth Bldg., Minneapolis, Arch.

Kan., Clyde—School—Bd. Education plans. About $40,000.

Kan., Ellsworth—High School—Bd. Education made plans, 2-story. About $50,000. H. B. Winter, Wherton Bldg., Manhattan, Arch. Noted June 22.

Kan., Neodesha—School—Bd. Education plans voting on $100,000 bonds.

Kan., Wichita—Hotel—O. S. Shirk plans, 6-story.

S. D., Sioux Falls—City Hall and Auditorium—City making plans, 150x154-ft. About $124,000. J. Schwartz, Sioux Falls, Arch.

N. D., Mandan—Hotel—A. D. Ashelman, Arch., making plans. About $100,000 L. B. Hanna, interested.

Wyo., Basin—Court House—Big Horn County votes bond issue in November. Address County Clk., Basin.

Mont., Dillon—Hotel—H. Andrus plans, 3-story, 75x115-ft. About $100,000.

Mo., Crane—Court House—City voted $50,000 bonds.

Mo., Joplin—Bank and Office—J. Ferguson soon receives bids, 3-story, 75x100-ft. About $150,000. E. P. Madorie, 832 Reserve Bank Bldg., Kansas City, Arch. Noted Sept. 28.

Mo., Kansas City—Missouri and Kansas Telephone Co. making plans for 16-story building at 11th and Oak St.

Mo., Kansas City—B. Adler Millinery Co., 1212 Main St., plans 5-story, rein.-con. building at 1214 Main St. About $60,000. Smith, Rea & Lovitt, Finance Bldg., Arch.

Mo., Kansas City—Church—Trinity Methodist Church plans. About $50,000. J. W. Jacobs, interested.

Mo., St. Louis—Administration Building—A. Leschen & Sons Rope Co. making plans. About $100,000. Henry W. Hall and Hugo K. Graf, Arch.

Mo., St. Louis—Schools—Bd. Education receiving bids Nov. 11 for $3,000,000 bonds. Noted Oct. 5.

Ark., England—J. K. Brodie making plans for 6-story building. J. H. Bliss, Southern Trust Bldg., Little Rock, Arch.

Tex., Marlin—Spivey, Carter & Bartlett receiving bids Dec. 1 for brick and concrete building. F. E. Robertson, 1407-08 Southwestern Life Bldg., Dallas, Arch.

Tex., Paris—School—School Bd. soon receives bids. About $150,000. Sanguinet & Staats, Ft. Worth, Arch. Noted June 15.

Tex., Waco—R. C. Allen, Hearne, plans building on Austin St. About $40,000.

Tex., Waxahachie—High School—City sold $90,000 bonds. Noted Nov. 2.

Tex., Yorktown—Hospital—G. W. Allen, M. D., plans.

Okla., Bristow—School—Bd. Education voted $120,000 bonds. C. E. Hair, Levy Bldg., Oklahoma, Arch.

Okla., Oklahoma — Clubhouse — Rotary Club plans. About $50,000. W. W. Edwards, Chn.

Okla., Oklahoma—M. E. Jayne, Arch., 503 American Bank Bldg., making plans for 6-story, 50x140-ft., brick and rein.-con. building. About $125,000.

Wash., Seattle — School — City making plans 2-story addition. About $75,000. E. Blair, 901 7th Ave., Seattle, Arch.

Wash., Tacoma — Gymnasium — Stadium High School soon lets contract, 2-story, rein.-con. About $50,000. Heath & Gove, National Realty Bldg., Arch. Noted Apr. 21.

Ore., Portland—School Bd. plans expenditure of $150,000 for Nicholsen School.

Calif., Anderson—High School—City votes Dec. 12 on $60,000 bonds. Noted May 4.

Calif., Berkeley—Theater—Williamson & Bradshaw making plans, 2-story, on University Ave. About $100,000. J. W. Plachek, Acheson Bldg., Arch.

Calif., Colusa — School — City voted $65,000 bonds. Noted Oct. 12.

Calif., Domona — Auditorium — Greek Theater plans election to vote on $50,000 bonds.

Calif., Fresno—Hotel—C. Teague and A. Adair, M. D., plan, Tulare and M St. About $200,000.

Buildings—(Continued)

Calif., Longbeach—City defeated $50,000 bonds for hospital. Noted July 6.

Calif., Los Angeles—Frederica DeLaLaguna and Jessica F. Vance, 616 South Alvarado St., plans Westlake School for Girls, 2-story, at 315 South Westmoreland Ave. About $50,000.

Calif., Los Angeles—Hotel—Frank Simpson plans, 11-story, rein.-con., on Grand Ave. About $120,000. Morgan, Walls & Morgan, Van Nuys Bldg., Arch.

Calif., Oakland—School—City soon to vote $2,000,000 bonds.

Calif., Porterville—High School—School Bd. plans issuing $100,000 bonds.

Calif., Tulare—E. Kump, Arch., making plans for building, 125,150-ft. About $40,000.

Bids In and Contracts Awarded

Mass., Springfield—City let contract for Hooker School to W. A. NEWTON & CO., $122,500.

Conn., Washington—Church—St. John's P. E. Society let contract to H. WALES LINES CO. About $50,000.

N. Y., Elmira—(Official)—Dormitory—Elmira College rejected bids, 3-story, 40x142-ft. Noted Oct. 26.

Fla., De Land—School—Bd. Pub. Instruction of Volusia County le contract, Rick and Clara Ave., to FLORIDA ENGINEERING CO., Jacksonville. About $49,582. Noted Oct. 12.

Ala., Birmingham—Loveman, Joseph & Loeb let contract 6-story, rein.-con. building to SMALLMAN & BRICE, Birmingham. About $125,000.

Miss., Ruleville—Church—Methodist Episcopal Congregation let contract to H. S. STANSELL, Ruleville.

La., New Orleans—Office—E. S. Shields, Secy. Sewage and Water Bd., let contract to R. McCARTHY, $276,506. Noted Sept. 7.

Ohio, Springfield—Hospital and Nursery—Odd Fellows let contract to J. A. ROSS, Springfield.

Ill., Onarga—School—Bd. Education let contract to SCHMIDT BROS. CONSTRUCTION CO., 105 North Clark St., Chicago, $47,007.

Wis., Portage—Hospital—Sisters of Divine Saviour let contract to B. WILKE, 1011 Island Ave., and WISCONSIN STRUCTURAL STEEL CO., Milwaukee.

Iowa, Waterloo—(Official)—High School—Bd. Education let contract 2-story to ANTON ZWASK, Dubuque. About $235,897. Noted Sept. 28.

Minn., Duluth—Library—City let contract, in West End, to JOSEPH HANSON.

Kan., Iola—High School—Bd. Education let contract 3-story, 90x106-ft., brick, stone and rein.-con. to SHARPE BROS., Eldorado. About $74,795. Noted Aug. 10.

Mo., Joplin—High School—City let contract to DIETER & WENZEL CONSTRUCTION CO., Joplin, $195,293.

Tex., Austin—Educational Building—University of Texas let contract to J. STEWART CONSTRUCTION CO., Houston, $232,000. Noted June 29.

Okla., Chickasha—Hotel—Z. I. McFarland & Son let contract 4-story, brick, to H. B. McFARLAND. About $50,000.

Ariz., Clarkdale—Hospital—United Verde Copper Co. let contract to CEMENT GUN CO., Haas Bldg., Los Angeles, about $75,000.

Ariz., Kingman—Lovin & Withers Co. let contract 1-story store building to J. B. LAMMERS & CO., Phoenix, about $51,156.

Calif., Los Angeles—City Hall and Storage Building—Bd. Pub. Wks. let contract to EDWARD & WILEY. About $40,000.

Calif., Los Angeles—Theater—Stability Building Co., Bradbury Bldg., let contract 12-story, to BAKER IRON WORKS, 912 North Broadway. About $100,000.

Calif., San Bernardino—Hospital—San Bernardino County let contract, 1-2-story, to F. O. ENGSTRUM CO., 5th and Seaton St., $116,000.

The Board of Directors of the United Alloy Steel Corporation, which was recently formed to take over the business and expand the operations of the United Steel Co., of Canton, Ohio, is composed as follows: Edward A. Langenbach, chairman, who is the president of the Berger Manufacturing Co.; Harry R. Jones, who is president of the corporation; E. D. Rogers, first vice-president in charge of sales, and president of the Buckeye Twist Drill Co.; E. L. Hang, secretary and treasurer; William H. Woodin, president of the American Car and Foundry Co.; E. H. Wells, president of the Babcock & Wilcox Co.; H. A. Colby, partner of Pickands, Mather & Co.; Bayard Dominick, of Dominick & Dominick; and John W. Prentiss, of Hornblower & Weeks. It is stated that the original capital of the United Steel Co. was $1,280,000, the par value of $100, and was turned in to the United Alloy Steel Corporation at $1,066 a share. It is also understood that the Ford Motor Co. takes half of the output of vanadium of the plant.

A. M. Anderson, representing the Oshkosh Manufacturing Co., manufacturer of concrete mixers, portable saw rigs, pumps and back fillers, and the John F. Byers Machine Co., manufacturer of the "Byers" auto crane, hoisting engines, derricks, derrick fittings and material elevators, has moved from 1440 Monadnock Blk. to 605 South Dearborn St., Chicago, Ill.

General Engineering Department of Union College, Schenectady, N. Y., is establishing a library and reference room and would like to receive bulletins, catalogs and other publications from State Engineering Departments, industrial plants, manufacturers of apparatus, tools, machinery, etc.

The Buffalo Steam Roller Co., Buffalo, N. Y., and the Kelly-Springfield Road Roller Co., Springfield, Ohio, will consolidate into one company to be known as the Buffalo-Springfield Road Roller Co. The main office and factory will be located at Springfield, Ohio, while the present branch offices at Boston, New York, Chicago, Pittsburgh, Philadelphia and Portland, Ore., will be continued. The consolidated company will constitute the largest concern in the world engaged exclusively in the manufacture and sale of road rollers.

A Russian Government Order for 1,000 locomotives stands supreme. This is the largest single locomotive order ever placed. Builders who are known to have shared in this contract have not as yet announced the receipt of the order, but it is known that the steel required has already been purchased. Other foreign locomotive purchases were sizable. The British War Office ordered 100 trench locomotives, the Paris-Orleans Railway 50 large engines, the Finland State Railways 20 large engines, a Spanish road 6. Other export orders came from Sumatra, South America and Africa. Domestic railroads were also active buyers of motive power. The Chicago & Northwestern ordered 77 locomotives and Wheeling & Lake Erie 10.

It is indicated that business to be taken by locomotive builders this year will be of record proportions. The orders received in the first ten months of this year are already in excess of the entire business taken in 1915, when orders for 2,101 locomotives were received. Up to the first of November orders for 4,023 locomotives were received and with foreign and domestic railroads in urgent need of equipment it is thought that the current year will show locomotive orders to a grand total of about 4,500.

Following is a comparative record of locomotive orders in the past nine months and for the same periods of 1915 and 1916:

	1916	1915	1914
January	258	54	77
February	563	60	142
March	510	140	240
April	250	120	162
May	328	165	132
June	326	130	116
July	81	120	98
August	148	110	130
September	263	170	110
October	1,387	234	130
Total ten month..s...	4,023	1,294	1,880

Crucible Steel Co. Earns Net Profit of $13,223,665—The annual report of the Crucible Steel Co. of America showed that the company earned net profits of $13,233,665 after paying dividends of $2,125,000 on the preferred stock and charging off $1,916,240 for depreciation and other fixed charges. The $25,000,000 common stock therefore earned slightly in excess of $50 a share. The balance sheet shows an unappropriated surplus of $9,543,606. The company has 4,390 holders of the preferred shares and 1,831 of common shares.

Contracts To Be Let

Bids received until Dec. 1, 1916.

Collection and Disposal of Garbage

Wilkes-Barre, Pa.

Sealed Proposals will be received at the City Clerk's Office, Wilkes-Barre, Pennsylvania, until Friday, December 1st, 1916, at 12 o'clock Noon, for furnishing all labor and materials and to collect and dispose of, in a sanitary manner, all garbage and dead animals in the City of Wilkes-Barre, for and during the period of five, seven or ten years, beginning May 1, 1917, in accordance with requirements and specifications, copies of which may be had upon application. Proposals to be endorsed "Proposals for the collection and disposal of garbage and dead animals" and shall be addressed to Fred H. Gates, City Clerk, and must be made upon forms to be furnished by him, and must be accompanied by a bidding bond in the sum of $3,000.00, the successful bidder to give a Surety Company Bond in the sum of $15,000.00.

The City Council reserves the right to reject any or all bids received and to readvertise the work if deemed for the best interests of the City.

By authority of City Council.

FRED H. GATES, City Clerk.

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U. S. ENGINEER OFFICE, Dallas, Tex.—Sealed proposals for jetty work at Sabine Pass, Tex., will be received here until 12 M., Nov. 14, 1916, and then opened. Information on application.

Bids received until Nov. 20, 1916.

Dredging

OFFICE OF BOARD OF COMMERCE
AND NAVIGATION
State House
Trenton, N. J., Nov. 1, 1916.

Sealed proposals for dredging a section of the proposed Inland Waterway connecting Barnegat Bay with the Nanasquan River will be received at this office at 12 o'clock noon, Nov. 20, 1916, and then publicly opened. About $50,000 is available for this work. The right is reserved to reject any or all bids. Further information on application.

BENJ. F. CRESSON, JR.,
Chief Engineer.

⁂

OFFICE OF THE COMMISSIONERS, D. C., October 28, 1916.—Sealed Proposals will be received at this office, Room 509 District Building, until 2 o'clock P.M. on November 21, 1916, for the construction of sewers in the District of Columbia, involving the construction of approximately 7,000 linear feet of masonry sewers, 6′ 0″ span to 2′ 9″ span; also approximately 900 linear feet of 30-foot wide concrete floor in old sewer. Forms of proposals, specifications and necessary information may be obtained from the Chief Clerk, Engineer Department, Room 427 District Building, Washington, D. C. OLIVER P. NEWMAN, LOUIS BROWNLOW, CHARLES W. KUTZ, Commissioners, D. C.

U. S. ENGINEER OFFICE, Room 707, Army Building, 39 Whitehall Street, New York, N. Y.—Sealed proposals will be received here until 12 M., Nov. 28, 1916, and then opened, for dredging in Newtown Creek, N. Y. Further information on application.

PROPOSALS FOR LEVEE WORK—Office of the Secretary, Mississippi River Commission, 1311 International Life Building, St. Louis, Mo.—Sealed proposals will be received here until 11 a.m., Dec. 4, 1916, for constructing about 100,000 cubic yards of earthwork in the East Cape Girardeau and Clear Creek Drainage District, Ill. Further information on application.

LOCKKEEPERS' HOUSES—U. S. Engineer Office, Wheeling, W. Va.—Sealed proposals will be received here until 11 a.m. (Eastern time), November 28, 1916, and then opened, for constructing two two-story, fourteen-room double houses, or four bungalow type houses, at Dam No. 21, Ohio River. Information on application.

UNITED STATES ENGINEER OFFICE, Room 710 Army Building, 39 Whitehall Street, New York, N. Y.—Sealed proposals for dredging and rock removal in Port Chester Harbor, N. Y., will be received here until 12 M., December 8, 1916, and then opened. Further information on application.

U. S. ENGINEER OFFICE, 405 Customhouse, Cincinnati, O.—Sealed proposals for furnishing and delivering wicket irons, horses, props and Poiree trestles for Ohio River Dams Nos. 31, 33, 35 and 39 will be received here until 2 p.m., Dec. 8, 1916, and then opened. Information on application.

U. S. ENGINEER OFFICE, First District, New York City, Room 710 Army Building, October 25, 1916—Sealed proposals for Dredging in Hudson River Channel, N. Y., will be received here until 12 M., November 24, 1916, and then opened. Further information on application.

Construction News

BUILDING OPERATIONS FOR OCTOBER

Following is a list of contracts awarded, published by the F. W. Dodge Co., throughout the states of New England, New York, New Jersey, Pennsylvania, Maryland, Delaware, District of Columbia, Virginia, Ohio, West Virginia, Illinois, Indiana, Iowa, Wisconsin, Michigan, Minnesota, North and South Dakota, and portions of Missouri and eastern Kansas:

Jan. 1 to Nov. 1, 1916	$1,121,616,397
Jan. 1 to Nov. 1, 1915	769,173,100
Jan. 1 to Nov. 1, 1914	632,462,200
Jan. 1 to Nov. 1, 1913	743,758,000
Jan. 1 to Nov. 1, 1912	743,331,500
Jan. 1 to Nov. 1, 1911	667,433,813
Jan. 1 to Nov. 1, 1910	694,007,066

NEW YORK STATE AND NORTHERN NEW JERSEY

Jan. 1 to Nov. 1, 1916	$225,106,500
Jan. 1 to Nov. 1, 1915	137,108,500
Jan. 1 to Nov. 1, 1914	112,360,500
Jan. 1 to Nov. 1, 1913	223,782,000
Jan. 1 to Nov. 1, 1912	206,392,500
Jan. 1 to Nov. 1, 1911	200,027,500
Jan. 1 to Nov. 1, 1910	205,844,000

These figures show that during the month of October for the territories given, contracts awarded amounted to $151,365,000 in the larger territories, and $44,303,000 in New York State and northern New Jersey. These figures show that the total of contracts awarded in October is considerably higher than any month in the past four. September had but $132,000,000, August $142,000,000, and July but $114,000,000. In the smaller territory, September had but $35,000,000, August $40,000,000 and July $29,000,000. This seems a little surprising on account of the lateness in the season, when in a normal year contracts would naturally commence to be more scarce.

A Completely Equipped Plant to Handle Reinforcing Steel—As an indication of what a staple line steel bars for reinforced concrete is becoming, an announcement made by the Republic Structural Iron Works Co. is of special interest. To take care of increasing business, this company has taken over the entire plant of the Avery Stamping Co., at 53rd and Lakeside Ave., Cleveland, Ohio, covering 100,000 sq.ft. On this site, following extensions, alterations and rebuilding, will be installed a complete plant for fabricating and shipping bars for concrete. Of special value to the contractors are the storage facilities developed. With this plant in operation, a contractor can place his order for a complete building. The steel can be fabricated, placed in storage and sent to the job as required. Facilities will be available for handling 4,000 tons of steel and more at a time.

The Great Advance in the Price of Railway Materials—The New York, New Haven & Hartford Railroad Co. in a circular to its officers and employees points out that the prices of all material and supplies used in the maintenance and operation of the railroad have been advancing continuously for more than a year, and that the advance during the last six months is even more serious than during the latter part of the year 1915. Accordingly, everyone is cautioned against waste. On all material excepting fuel, rails and ties, the average increase in price during the past twelve months has amounted, it is stated, to approximately 60%. During the year 1915 the company expended $4,787,000 for material of this description. At the present market prices the same amount and character of material would cost $7,659,000, or an increase of $2,872,000 for the year. It is therefore urged that every possible economy in the use of material and supplies be exercised—that repairs should be made instead of complete renewals in all cases where practicable, even where under normal conditions it might be better to renew than to repair.

A table is appended giving a list of a number of items of common use with the percentage of increase in the cost of each, as a matter of interesting and instructive information.

INCREASES RANGING FROM 10% TO 85% BETWEEN APRIL, 1915, AND JULY, 1916

Acids	47
Air hose	38
Angle bars	33
Antimony (babbitt metal)	42
Axles, car and tender	48
Axles, driving	30
Axles, engine truck	63
Belting, axle	33
Belting, leather	59
Bolts, machine and carriage	40
Bolts and nuts	67
Brass (bar, sheet and spring)	54
Bridge timber	44
Castings, grey iron	13
Chains, all kinds	62
Claw bars	30
Copper (bar and sheet)	36
Couplers	18
Crank pins	12
Drills, all kinds	64
Ferrules, flue	36
Files	70
Fuel oil	42
Fusees	33
Gaskets, air hose	11
Nails, wire	61
Pipe covering, all kinds	33
Pipe, galvanized	17
Pipe, malleable	59
Piston rods	15
Roofing	17
Rope, Manila	61
Sheathing	38
Springs, coil	74
Springs, elliptic	51
Steel, bar	77
Tamping bars	85
Tamping picks	26
Ties, cross	13
Ties, switch	18
Tires	55
Track spikes	77
Waste	78

INCREASES RANGING FROM 85% TO 250% BETWEEN APRIL, 1915, AND JULY, 1916

Castings, brass	107
Castings, steel	107
Cement	86
Gasoline	118
Iron bar	95
Journal bearings	89
Rivets, boiler	132
Rivets, structural	140
Steel, structural	91
Steel, boiler	226
Steel, firebox	195
Steel, tank	142
Track bolts	115
Tubes, boiler	94
Tubes, brass	105

(From the "Commercial and Financial Chronicle.")

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Massachusetts—Bay State St. Ry., Boston, plans extension to Country Club, Nashua, N. H. R. S Goff, Boston, Gen. Mgr.

New York—Buffalo & Depew Ry. plans extension from Depew to Bowmansville and from Depew to Lancaster. W. L Upson, Gen. Mgr. and Ch. Engr. M. W.

New Jersey—Salem & Pennsgrove Traction Co. plans extension from Salem to Quinton. C. V. Martin, 705 Stock Exchange Bldg., Philadelphia, Secy.

Pennsylvania—Steelton & Highspire R.R., controlled by Bethlehem Steel Co., plans line from Steelton to Highspire.

Maryland—Towson & Cockeysville Electric Railway Co. plans to extend line from Timonium to Texas, about 2 mi. J. A Shriver, Belair, Gen. Mgr.

North Carolina—J. C. Kittrell, Henderson, interested in railway from Henderson to Wilson, via Castalia, about 50 mi.

Tennessee—D. B. Carson and W. H. Hillyer, Atlanta, Ga., plan railway from Nashville to Chattanooga.

Kentucky—L. M. Hunter, Owensboro, plans line from Ashland to Russell.

Ohio—Cleveland, Cincinnati, Chicago & St. Louis Ry. plans twelve 100-car switch tracks in new yard at Cold Springs, west of Springfield. C. A. Paquette, Cincinnati, Ch. Engr.

Ohio—Cleveland, Southwestern & Columbus Railway Co. will lay 100-lb. rails from tracks of Toledo & Ohio Central R.R., Cleveland, to eastern corporation line of Bucyrus E. F. Schneider, 525 Garfield Bldg., Cleveland, Gen. Mgr.

Ohio—Minster & Loramie Ry., Ft. Loramie, plans to extend line to Covington or Piqua. F. D. Carpenter, Lima, Gen. Mgr.

Indiana—Baltimore & Ohio Railroad Co. plans to spend about $75,000 for improving and enlarging freight yards at Garrett. R. N. Begien, Baltimore, Ch. Engr.

Indiana—E. J. Skehan and D. C. Moore, Richmond, interested in electric railway from Richmond and Ft. Wayne via Union City, Winchester, Portland and Decatur.

Illinois—Chicago, Fox Lake & Northern Electric Railroad Co. granted certificate by Pub. Utilities Comn. for railway from Evanston to Palatine and Lake Geneva, Wis., about 110 mi. H O. Strauss, Harris Bldg., Chicago, Engr. Noted Aug. 24

Illinois—Woodstock & Sycamore Traction Co. plans to electrify line from Sycamore to Genoa and Marengo, about 26 mi. T. E. Ryan, Genoa, Gen. Mgr.

Iowa—Iowa Railway and Light Co. plans to extend lines in Boone, about 2 mi. W. G. Dows, Cedar Rapids, Gen. Mgr.

Minnesota—St. Paul Southern Electric Railway Co , St. Paul, plans extension to Cresco, Iowa. J. J. Macdonald, Hastings, Supt

Kansas—Kansas City Railway Co. granted franchise to construct car line on 18th St. from Central to Kansas Ave., Kansas City. J. E. Gibson, Kansas City, Mo., Gen. Mgr.

Montana—Great Northern Ry. plans to extend Valier branch east from Valier to connect with Havre Great Falls line. A. H. Hogeland, St. Paul, Ch. Engr.

Texas—Rio Grande Ry. making surveys for new route from Brownsville to gulf. D. A. O'Brien, Brownsville, Vice-Pres. and Gen. Mgr.

Idaho—Chicago, Milwaukee & St. Paul Ry. making surveys for railway into white belt north Orofino. C. F. Loweth, Railway Exchange Bldg., St. Paul, Ch. Engr.

Utah—Salt Lake & Los Angeles Ry., Salt Lake City, plans to electrify line, also build extension to Garfield. About $300,000. J. Nelson, Salt Lake City, Gen. Mgr.

Washington—Lewiston, Nez Perce & Eastern R.R. plans extension from Tammany to Waha and Vollmer, Idaho. A. J. Warren, Lewiston, Idaho, Ch. Engr.

California—Montecito R.R., Los Angeles, plans to extend line 1 mi. next year. W. D. Larrabee, 204 Higgins Bldg., Los Angeles, Pres.

California—Tidewater Southern Co. applied to State Railroad Comn. for permission to extend line from Hatch to Irwin City, about 8 mi., and to issue securities to pay for extension. J. C. Lindsay, Stockton, Ch. Engr.

Ontario—Ontario Ry Bd , Toronto, plans to extend Toronto Suburban Ry. on Pape Ave. from Gerard St., Toronto. G. C. Royce, West Toronto, Gen. Mgr.

Saskatchewan—Saskatoon Municipal Ry., Saskatoon, plans link between Clarence Ave. line and 2nd Ave. line via 25th St. Bridge. About $10,000. G. D. Archibald, City Hall, Supt.

Bids In and Contracts Awarded

Virginia—Holston River Lumber Co., Abingdon, let contract railway to Clinch Mountain Dist., about 11 mi., to VAUGHAN CONSTRUCTION CO. Noted May 18.

West Virginia—Virginian Railway Co., Norfolk, let contract extension from Pemberton to Fireco, 8 mi., to WALTON CONSTRUCTION CO., Falls Mills, Va. Noted Oct. 12.

Tennessee—Illinois Central R.R let contract additional tracks in Nonconnah Yards, Memphis, to ROACH & STANSELL, North Memphis Savings Bank Bldg , Memphis.

Illinois—Southern Illinois Railway and Power Co., Harrisburg, let contract extending line to Marion, Herrin and Benton and to build loop from Benton to Herrin via DuQuoin, Pickneyville, Murphysboro and Carbondale to HERMAN CONSTRUCTION CO., St. Louis, about $200,000. Noted June 22.

Wisconsin—Wisconsin Interurban System let contract single-track line from Madison to Portage, Prairie du Sac and Janesville, about 195 mi., to J. STEWART & CO., 30 Church St., New York.

LIGHT, HEAT AND POWER

Proposed Work

Mass., Waltham—Bd. Alderman appointed committee to investigate lighting system with view to improving same.

N. Y., Caledonia—Nedrew Manufacturing Co. made plans for boiler house.

N. Y., New York—(Queens)—Astoria Veneer Mills and Dock Co., Ft. Blackwell St., making plans for 2 boiler houses. About $25,000. F. W. Korfmann, 406 9th Ave., Manhattan.

N. J., Newton—Citizens voted $8,000 for electric-light system. Noted Oct. 12.

Penn., Hazleton—L. Roessel Co. plans power house at silk plant. W. E. S. Dyer, Arch.

Penn., Sunbury—Northumberland County Gas and Electric Co. plans to improve local plant.

Md., Sparrows Point—Bethlehem Steel Co. made plans for new electric generating plant and engine room.

N. C., Bethel—City to rebuild electric-light plant.

N. C., Burlington—Piedmont Railway and Electric Co plans transmission line to Elon College and Gibsonville, 1 mi. G. W. Hatch, Burlington, Supt.

Fla., Okeechobee—Southern Utilities Co., Jacksonville, has franchise to install electric-light and power system in Okeechobee.

Miss., Columbus—Council petitioned to issue $50,000 bonds for electric-light plant.

La., Kenner—See item under "Water-Works."

Light, Heat and Power (Continued)

La., Welsh—Citizens voted $15,000 bonds for extending electric-light system. Noted Oct. 19.

Ky., Olive Hill—City voted $10,000 bonds for electric-light and water systems.

Ohio, Bellefontaine—City making plans for addition to gas plant. About $50,000.

Ohio, Columbus—Columbus Railway and Light Co. plans to extend transmission line to Centerburg.

Ohio, Columbus—Ohio State University making plans for power house. About $200,000.

Ohio, Hamilton—Council passed ordinance authorizing expenditure of $5,700 for improving and extending electric-light plant.

Ohio, Lowellville—Republic Railway and Light Co., Sharon, making plans for extensive improvements to power station. Noted Nov. 2.

Ohio, Williamsport—Circleville Light and Power Co. granted 25-year franchise for electric-light and power system in Williamsport.

Ind., Edwardsport—Indiana Power and Light Co. making plans for 1-story power plant.

Ill., Bloomington—Council plans to spend $15,000 for improving electric-light plant.

Ill., Fairbury—Council appointed committee to investigate feasibility of installing electric-light plant.

Wis., McDill—J. Strange Paper Co., Neenah, plans dam and hydro-electric plant at McDill, near Stevens Point.

Wis., Merrill—Council plans to install street-lighting system.

Iowa, Buffalo—Council plans to install electric-lighting system.

Iowa, Lonerock—Lonerock Electric Light Co. plans power house.

Iowa, Sheldon—Sheldon Gas Co. making plans for plant. About $30,000. Western Gas and Construction Co., Ft. Wayne, Engr.

Minn., Ely—Kawishiwi River Power Co. organized to build hydro-electric power plant. About $1,500,000. T. W. Orbison, Appleton, Wis., Engr.

Minn., St. Cloud—Union Power Co. plans 50-mi. transmission line. About $10,000. J. Wintermeyer, St. Cloud, Ch. Engr.

Kan., Hiawatha—City plans new street-lighting system.

Kan., Munden—City to vote on proposition to install electric-light plant. W. H. Stenad, City Clk.

S. D., Dell Rapids—City receiving bids Nov. 28 for sale of $8,000 bonds for electric-light plant.

Mont., Poplar—City voted $6,500 bonds for electric-lighting plant.

Mo., Springfield—City election Dec. 12 to vote on $400,000 bonds for electric-light plant. T. J. Moore, Clk.

Ark., Gillett—Stuttgart Pub. Ser. Co., Stuttgart, plans plant at Gillet to furnish town with electric light and water. Company granted 50-year franchise.

Tex., Bertram—Elias Allen plans electric-light and power plant.

Tex., La Pryor—R. L. Couser and W. L. Tittsworth interested in electric-light plant in La Pryor.

Okla., Checotah—Council plans electric-light plant.

Okla., Pawhuska—City to vote on $7,000 electric-light bonds. J. M. Buckley, City Engr.

Colo., Greede—Commodore Mining Co. plans power house.

Nev., Gardenville—L. Ruhenstroth interested in electric-light plant in Gardenville.

Ariz., Duncan—J. P. Overholser and C. E. Adams plan to improve electric-light plant.

Wash., Davenport—Washington Water Power Co., Spokane, applied to Comrs. Lincoln County for 50-year franchise to build and operate transmission lines along roads Lincoln County.

Calif., Chula Vista—San Diego Electric Railway Co. plans substation.

Alta., Lethbridge—Citizens voted in favor of bylaw for $17,000 for additions to electric-light system.

Bids In and Contracts Awarded

Maine, Corinth—Bangor Railway and Electric Co. let contract substation to W. E. FISH, Bangor.

N. Y., Falconer—Goodwill Bros. let contract 1-story, 50x100-ft. boiler house to JAMESTOWN CONSTRUCTION CO., Jamestown.

N. Y., Niagara Falls—Titanium Alloy Manufacturing Co. let contract 1- and 2-story 28x72-ft. boiler house to PECKHAM CONSTRUCTION CO., Mutual Life Bldg., Buffalo. About $7,000.

Penn., Philadelphia—Misercordia Hospital, 54th St. and Cedar Ave., let contract power house to J. McSHAIN.

S. C., Chesnee—G. Blackwell let contract electric-light plant to C. S. BALLARD.

Ill., East St. Louis—Indiana Refining Co. let contract 1-story, 40x64-ft. boiler house to E. M. KIEFER, East St. Louis. About $6,000.

Kan., Parsons—Missouri, Kansas & Texas R.R. let contract heating plant to G. GOODLANDER, Kansas City, Mo. About $8,000.

Mont., Melstone—City let contract electric-light plant to E. T. BARRON, Roundup, $8,000. Noted Oct. 12.

Idaho, Pocatello—City let contract street lighting system to POCATELLO ELECTRIC CO. About $51,514. Noted Oct. 19.

BRIDGES

Proposed Work

Maine, Bangor—See item under "Streets and Roads."

Maine, Machias—City plans bridge. L. Bowker, Clk.

Mass., Chelsea—Boston & Albany R.R. petitioned Bd. Aldermen for permission to rebuild bridge over tracks at Bellingham St. F. B. Freeman, Boston, Ch. Engr.

Mass., Wilton—City plans highway bridge. About $4,000.

Conn., New London—(Official)—New York, New Haven & Hartford Railroad Co. received low bids sub-structure for Thames River Bridge from Holbrook, Cabot & Rollins Corporation, Boston, Mass., Foundation Co., 233 Broadway, New York, N. Y., Union Bridge and Construction Co., Kansas City, Mo. E. Gagel, Ch. Engr.

N. Y., Utica—New York Central R.R. plans rein.-con. bridge over tracks. About $30,000. G. W. Kittredge, Grand Central Term., New York, Ch. Engr.

N. J., Elizabeth—Union County receiving bids in December for bridge on South Front St. About $54,000. J. E. Roe, Elizabeth, County Clk. Noted Sept. 28.

N. J., Highlands—Bd. Freeholders, Monmouth County, making plans for rein.-con. bridge over Shrewsbury River. About $80,000. Address County Clk., Freehold.

N. J., Salem—Salem County making plans for bridge over Salem River. About $75,000. Address County Clk., Salem. Noted June 29.

Penn., Lancaster—Lancaster County Comrs. plan bridge over Beaven Dam in New Philadelphia, steel bridge over Sugar Creek, Wooster Rd., concrete bridge over Little Stillwater River at East Center St., Dennison. Address County Clk., Lancaster.

Penn., New Castle—Lawrence County Comrs. soon receive bids for several bridges. Address County Clk., New Castle.

Penn., Philadelphia—City soon receives bids for rein.-con. and steel bridges. Noted Nov. 2.

Penn., Reading—State Pub. Ser. Comn. granted permit for bridge over tracks of Lebanon Valley R.R. on Tulpehocken St. E. Ulrick, City Engr. Noted Oct. 12.

Penn., Williamsport—City making plans for rein.-con. bridge over McClure's Run on Washington St. J. B. Otto, City Engr.

W. Va., Huntington—City plans viaduct on 5th Ave. About $54,000. A. P. Maupin, City Engr.

Ga., Savannah—Chatham County Comrs. granted permission to Savannah & Northwestern Ry. to construct trestle across Pipemaker Canal. L. B. Ackerman, Ch. Engr.

Ga., Savannah—Central of Georgia Ry. plans bridge over Oconee River; also bridge over St. Augustine Creek on Tybee Division. C. K. Lawrence, Savannah, Ch. Engr.

Fla., Tampa—~~See item~~ under "Streets and Roads."

Ala., Gadsden—Etowah County receives bids in November for steel bridge across Warrior River near Walnut Grove; also concrete bridge across Black River on Lookout Mountain. Address County Clk., Gadsden.

La., Des Allemanda—Highway Dept. receiving bids Dec. 4 for steel swing bridge across Bayou Des Allemanda. W. E. Atkinson, New Orleans, State Highway Engr.

La., Monroe—City plans bridge over Quachita River. About $300,000. R. O. Morrison, City Engr.

Tenn., Columbia—Maury County Comrs. plan concrete bridges and culverts. About $10,818. Address County Clk., Columbia.

Ohio, Akron—Summit County receiving bids Nov. 21 for bridge over Kenmore Canal. Address County Clk., Akron.

Ohio, Barberton—City made plans for Center St. Viaduct.

Ohio, Barberton—Council plans viaduct on Tuscarawas Ave.

Ohio, Bucyrus—Crawford County Comrs. plan bridges and improving roads in Whetstore, Holmes and Liberty Townships. S. L. Niederheiser, City Engr.

Ohio, Lebanon—Warren County Comrs. receiving bids Nov. 20 for rebuilding bridges in county. Address County Clk., Lebanon.

Ohio, Tiffin—Seneca County receiving bids Nov. 18 for Schubert Bridge, No. 18, Seneca Township. J. E. Hershberger, Tiffin, County Audr.

Mich., Flint—Council plans bridge over Flint River near Saginaw St. C. E. Shoecroft, City Engr.

Mich., Marquette—See item under "Streets and Roads."

Ill., Clinton—De Witt County receiving bids about Mar. 1 for 128-ft. bridge. Address County Clk., Clinton. Noted Nov. 9.

Ill., Elgin—City making plans for bridge on Kimball St. M. Brightman, City Engr.

Wis., Milwaukee—(Official)—City voted $250,000 bonds for bridge over Milwaukee River between Oneida and Cedar St. J. C. Kinney, Jr., Supt. Bridges. Noted Oct. 19.

Iowa, Avon—Chicago, Rock Island & Pacific R.R. plans viaduct over tracks on Des Moines-Carlisle Rd. C. A. Morse, Ch. Engr.

Iowa, Fairchild—Jefferson County Comrs. soon lets contract for bridge over Skunk River. D. L. Teal, Fairfield, County Engr. Noted Nov. 9.

Iowa, McGregor—Chicago, Milwaukee & St. Paul Ry. plans steel bridge. C. F. Loweth, Chicago, Ch. Engr.

Minn., Carver—City making plans for bridge over Minnesota River.

Minn., Grand Marais—City plans bridge across Devil's Track River.

Minn., Lansing—Mower County plans 2 bridges over Cedar River. O. J. Simmons, Austin, County Audr.

Kan., Junction City—City soon receives bids for concrete bridge over Republican River between Junction City and Ft. Riley. Noted Sept. 28.

Kan., Kansas City—Missouri Pacific Railway System plans viaduct on James St. About $60,000. E. A. Hadley, St. Louis, Ch. Engr.

Kan., Kansas City—City making preliminary plans for viaduct on 7th St., about $1,800 ft. long, $250,000. Harrington, Howard & Ash, Orear Leslie Bldg., Consult. Engr. Noted Oct. 5.

Kan., Leavenworth—Leavenworth County Comrs. retained R. L. McAlpine, Engr., to make plans for Eudora Bridge over Kaw River, connecting Leavenworth and Douglas Counties. Address County Clk., Leavenworth.

Kan., Paola—Miami County plans 14 bridges. About $20,000. C. H. Helman, County Clk., Paola.

Kan., Parsons—Labette County Comrs. soon receive bids for concrete bridge on Main St. About $7,000. Address County Clk., Oswego. Noted Oct. 19.

S. D., Chamberlain—Chicago, Milwaukee & St. Paul Railway Co. making preliminary plans for bridge over Missouri River. C. F. Loweth, Chicago, Ch. Engr.

Mo., Kansas City—Bd. Pub. Wks. receiving bids Nov. 17 for 2 rein.-con. bridges over Brush and Shutte Creeks. About $14,000. Noted Nov. 9.

Ark., Mt. Ida—Montgomery County Comrs. voted appropriation for bridges. Address County Clk., Mt. Ida.

Ark., Texarkana—Miller County Highway and Bridge Dist. will soon sell $250,000 bonds for bridge over Red River. Noted June 15.

Tex., Dallas—Northern Texas Traction Co. will build steel bridge over Trinity River. About $300,000. V. W. Berry, Ft. Worth, Gen. Supt.

Tex., Waco—City voted $25,000 bonds for bridges and culverts. G. G. Gunley, City Engr. Noted Oct. 19.

Tex., Wichita—Wichita County Comrs. soon lets contract for 3 bridges. About $70,000. Noted July 6.

Okla., Idabel—McCurtain County Comrs. plan 3 bridges. Address County Clk., Idabel.

Okla., McAlester—Pittsburg County Comrs. making plans for bridge across South Canadian River near Canadian and Eufalfa. Address County Clk., McAlester.

Okla., McLoud—City plans to vote Nov. 28 on $30,000 bonds for concrete culverts.

Okla., Nowata—City voted $7,000 bridge bonds.

Okla., Pawhuska—State Highway Dept. approved plans for bridge on Main St. Noted May 18.

Okla., Sayre—Beckham County Comrs. soon receives bids for 2 rein.-con. bridges. C. R. Reid, Sayre, County Engr.

Okla., Shawnee—Pottawatomie County Comrs. plan bridge across South Canadian River, at Shawnee. Address County Clk., Tecumseh.

Ore., Marshfield—City soon receives bids for 180-ft. steel bridge.

Calif., Redwood City—City plans highway bridge at Dumbarton Point.

Calif., San Bernardino—Bd. Supervs. plans 2 bridges in Lytle Creek Canyon. About $56,000. Address County Clk., San Bernardino.

Que., Montreal—J. F. Jago Co., 37 Mayor St., Montreal, soon receives bids for bridge on Church Ave. About $78,887.

Que., Weir—Town receiving bids Dec. 2 for steel bridge over Rouge River.

Ont., Farrans Point—Osnabruck Township plans concrete bridge. About $150,000.

Bids In and Contracts Awarded

N. H. Haverhill—Town let contract bridge over Connecticut River between Haverhill, N. H., and Newbury, Vt., to UNITED CONSTRUCTION CO., Albany, N. Y., $50,000. Noted July 6.

N. Y., Buffalo—City let contract reconstruction viaduct in Michigan Ave., Babcock St., Smith and Seneca St. to STROBEL CONSTRUCTION CO., 53 West Jackson St., Chicago, Ill., $382,000. Noted Nov. 2.

N. J., Bridgeton—City let contract bridge to C. PLATT. Noted May 4.

N. J., Jersey City—Bd. Comrs. let contract bridge over Morris Canal at foot of Yale St. to H. DELATUSH CO., 562 Newark Ave. Noted Oct. 12.

Bridges (Continued)

N. J., Trenton—Pennsylvania R.R. let contract bridge over Delaware & Raritan Canal, Bakers Basin, to L. LAWTON, Broad St. Bank Bldg., Trenton, about $30,000. Noted Aug. 31.

Penn., Windber—City let contract 2 rein.-con. bridges over Sees Run at Center St. to PEARSON & LARSON.

Ga., Atlanta—R. M. Walker, Atlanta, submitted low bid for Edgewood Ave. Bridge. About $19,490. Noted June 9.

Fla., Charlotte Harbor—Bd. County Comrs., Arcadia, let contract rein.-con. bridge across bay from Charlotte Harbor to Punta Gorda, to F. J. STAMM, St. Petersburg, $103,081.

Ky., Louisville—City let contract steel swing bridge over Louisville and Portland Canal to MILWAUKEE BRIDGE CO.

Ohio, Dayton—(Official)—Montgomery County Comrs. let contract bridges on New Troy Pike and Springfield Rd. to FARRELL & CRAMPTON, R. F. D. No. 5, Dayton, $8,353. Noted Nov. 2.

Ohio, Newark—W. M. McCam submitted low bid for Tish Bridge in Licking Township.

Ind., Independence—Buchanan County let contract rein.-con. bridge over Wapsinicon River to WIDELL & CO., Mankato, Minn., $38,000. Noted Sept. 28.

Mich., Detroit—Postum Cereal Co., Battle Creek, let contract steel foot bridge to WISCONSIN BRIDGE AND IRON CO., 1362 Penobscot Bldg., Detroit. About $8,000.

Mich., Lansing—State Highway Comn. let contract Bridge No. 72, La Salle Township, to E. C. NOLAN, Edenville.

Ill., Lincoln—Bd. Superv., Lincoln County, West Lincoln Township, let contract rein.-con. bridge over Kickapoo Creek to DETROIT BRIDGE CO., $4,865. Noted Oct. 19.

Iowa, Waverly—Bremer County let contract superstructure Harmon St. Bridge to ILLINOIS STEEL CO., Jacksonville, Ill., $18,750.

Minn., Duluth—St. Louis County let contract bridge over Cloquet River to MINNEAPOLIS BRIDGE CO., 606 Metropolitan Life Bldg., Minneapolis, about $9,595.

Kan., Anthony—Harper County let contract bridge near Anthony and Bluff City to BEEBE CONSTRUCTION CO., $15,000. Noted Oct. 26.

Mo., St. Louis—Wabash Railroad Co. let contract rein.-con. viaduct on St. Charles Rock Rd. to GINDELE CONSTRUCTION CO., 3333 South La Salle St., Chicago, Ill.

Tex., Ft. Worth—City let contract Allen Ave. Viaduct to B. F. & C. M. DAVIS CO., $40,143. Noted Oct. 5 and Nov. 2.

Okla., Enid—Garfield County let contract 7 bridges to MONARCH ENGINEERING CO., Fall City, Neb., $8,200.

Okla., Lawron—Comanche County let contract for several bridges to MIDLAND BRIDGE CO., Kansas City, Mo. Noted May 18.

Okla., Miami—Ottawa County Comrs. let contract bridge over Tar River, at Tar River, to M. STIPEL.

Okla., Pawnee—Pawnee County Comrs. let contract for bridges to CANTON BRIDGE CO., Canton.

Okla., Sulphur—City let contract bridge across Washita River to MIDLAND BRIDGE CO., Kansas City, Mo.

N. M., Santa Rosa—Guadalupe County let contract 2 steel bridges, 1 across Truchers Creek at Ft. Sumner and 1 across Pecos Creek at Delia, to EL PASO BRIDGE AND IRON CO., Southwestern Bldg., El Paso, Tex. Noted Oct. 12.

Calif., San Francisco—City let contract 6th St. Bridge to HEALY-TIBBITTS CONSTRUCTION CO., Main and Market St., San Francisco.

WATER-WORKS

Proposed Work

Mass., North Abington—Town plans improving water system and installing electric pump.

R. I., Providence—City made plans for diverting north branch Pawtuxet River at Kent from present course, and constructing water gate, preliminary to building dam for Scituate Reservoir. Noted Jan. 20.

Conn., Waterbury—City plans water main in Huntingdon Ave. About $48,000. C. McDonald, Supt.

N. Y., Auburn—(Official)—City voted to install filter plant. About $20,000. J. W. Ackerman, Supt. Noted Aug. 31.

N. Y., Dodgeville—City plans reservoir. N. H. Bacon, Supt.

N. Y., Ft. Ann—City soon receives bids for water system. About $25,000. Noted Oct. 5.

N. J., Stewartsville—Lopatcong Water Co. plans extending water system.

Penn., Fleetwood—City plans to vote in November on $4,000 water bonds.

Penn., Reading—State Dept. Health approved plans of Angelica Water and Ice Co. for temporary treatment of water system with chemical germicide.

S. C., Conway—City receiving bids Nov. 25 for sale of $30,000 water and sewer bonds. Noted July 13.

Ga., Jonesboro—Council approved resolution for reservoir. W. S. Archer, Mayor.

Miss., Sumrall—City receives bids in December for 50,000-gal. reservoir. About $10,000 or $15,000. J. I. Brueck, City Clk. Noted Oct. 2.

La., Kenner—City plans water system and electric-light plant. A. Kramer, Magnolia, Miss., Engr.

La., Vinton—(Official)—City soon votes on $20,000 bonds for water system. T. H. Mandel, Lake Charles, Town Engr.

Ky., Winchester—(Official)—City receiving bids some time in January for water system. About $180,000. E. B. Kay, 305 Colonial Bldg., Winchester, Consult. Engr. Noted Nov. 9.

Ohio, Cambridge—Council plans expenditure of $25,000 for water system.

Ohio, Canal Winchester—City to vote Nov. 21 on $18,000 bonds for improving water system. W. M. Lane, Mayor. Noted Nov. 9.

Ohio, Greenville—Council passed ordinance to issue $85,000 bonds for well system. J. P. Lucas, Supt.

Ohio, Hamilton—See item under "Light, Heat and Power."

Ohio, Lima—Bd. Control receiving bids Dec. 12 for reservoir, filter plant and pumping station. J. Askins, Supt. Noted June 8.

Ohio, Springfield—Bd. Hospital Trustees receiving bids Nov. 24 for filter plant at City Hospital. W. H. Mahoney, Clk. G. S. Cotter, Supt.

Ohio, Wadsworth—City to vote on $25,000 bonds for filter plant. F. J. Porter, Supt. Noted Sept. 21.

Ohio, Winchester—City soon to let contract for concrete reservoir and pump house. B. M. Herbst, Village Clk. Noted Oct. 26.

Ohio, Zanesville—City rejected bids for water system. New bids soon to be received. Noted Oct. 26.

Mich., Ann Arbor—City soon votes on $75,000 bonds for extending water system. R. Spokes, Supt. Noted Nov. 2.

Mich., Detroit—Bd. Water Comrs. receiving bids Dec. 12 for two 37,000,000-gal. vertical, triple-expansion, crank and flywheel pumping engines. H. A. Gilmartin, Secy.

Mich., Mt. Clemens—City defeated $12,000 water bonds. A. Kells, Supt.

Mich., Otsego—City receiving bids Nov. 20 for improving water system. About $30,000. W. G. Conlan, Clk. Noted Nov. 2.

Ill., Wilmington—Bd. Local Impvts. soon receives bids for extending water system. About $34,000.

Iowa, Lake Mills—City making plans for water mains and reservoir. Noted Oct. 26.

Iowa, Moxwell—City plans voting on $15,000 bonds for improving water system. W. J. Cure, Supt.

Iowa, Stuart—(Official)—City sold $25,000 water bonds. Noted Oct. 26.

Minn., Duluth—City plans extending water and gas mains in portion of Superior and Eilleen St. D. C. Keefe, Supt.

Minn., St. Paul—(Official)—City receiving bids Nov. 27 for c.-i. pipe, specials, sluice gates, gate valves and steel reinforcing high-service reservoir. About $400,000. G. O. House, Gen. Supt. Noted Nov. 2.

Minn., Winsted—City plans water system.

Kan., Buffalo—City voted $15,000 water-works bonds.

Kan., Manchester—(Official)—City defeated $23,000 water bonds. Noted Oct. 26.

Kan., Munden—City to vote Dec. 1 on water system. W. H. Stenad, City Clk. Noted Nov. 9.

Neb., Scotts Bluff—City to vote Dec. 4 on $32,000 bonds for improving water system. O. M. Finley, Supt.

S. D., Milbank—(Official)—City defeated $25,000 bonds for filter plant. Noted Nov. 2.

N. D., Fairmount—City plans water system. L. N. Abbott, Mayor.

Mont., Big Sandy—Ctiy votes Jan. 8 on $29,300 bonds for water system.

Mo., Neosho—Water Bd. soon lets contract for about 4,000 or 5,000 ft. 4- and 6-in. c.-i. pipe. W. Oliver, Chn.

Tex., Karnes City—City Comn. plans election to vote on bonds for water system.

Tex., Post City—Post City Water Co. recently incorporated with capital stock of $170,000 plans water system. L. J. Montgomery, stockholder.

Tex., Wellington—Council soon lets contract for water system. About $27,000. Noted Aug. 31.

Okla., Beggs—City voted $42,000 water-works bonds. McIntosh-Walton Co., Oklahoma, Engr. Noted Oct. 12.

Okla., Enid—City defeated $50,000 water bonds. F. W. Brooks, Supt. Noted Oct. 12.

Okla., Lindsey—City plans voting on $6,000 water bonds. A. W. Simpson, Supt.

Okla., Stroud—City receiving bids Nov. 27 for 75,000-gal. elevated tank. Benham Engineering Co., Colcord Bldg., Engr. Noted Oct. 19.

Colo., Granada—(Official)—City voted $25,000 water bonds. W. R. Waldo, City Clk. Noted Nov. 2.

Colo., La Salle—City plans to vote on $20,000 bonds for water system.

Idaho, Payette—City voted bonds for water system. E. A. Chany, Supt.

Idaho, Lewiston—City receiving bids Nov. 20 for 2 turbine pumps. E. G. Wagner, Supt.

Idaho, Sandpoint—City plans election to vote on water bonds. Noted Apr. 6.

Idaho, Twin Falls—City soon receives bids for water system. About $300,000. Louis S. Kelsey, Selling Bldg., Portland, Ore., Engr. Noted Nov. 9.

Wash., Seattle—Council voted to sell $60,000 water bonds for standpipe of 1,000,000-gal. capacity at Mapleleaf Reservoir, pumping station at Green Lake Reservoir, with pipe line connecting standpipe and pumping station. L. B. Youngs, Supt.

Ore., Astoria—City votes in December on $125,000 bonds for reservoir.

Ore., Hermiston—City soon votes on $8,000 bonds for improving water system.

Ore., McMinnville—(Official)—City voted $90,000 water bonds. Noted Nov. 9.

Ore., Portland—Council plans to spend about $21,000 for improving water-works and $60,000 to purchase site at West Side for reservoir. L. S. Kaiser, Supt. Noted Mar. 2.

Ore., Portland—North Coast Power Co. plans to improve water system. About $50,000.

Calif., Hayward—Bd. Trustees plans water system.

Calif., Reading—City making plans for water system.

Calif., Rio Vista—City plans to vote on $10,000 water bonds. B. L. Upham, Supt.

Calif., San Rafael—Marin Municipal Water Dist. receiving bids Nov. 21 for tunnel under Pine Mountain. About $500,000. Noted Nov. 9.

Ont., Cornwall—(Official)—City receiving bids about Nov. 20 for addition to pumping station. About $20,000. Charles Lount, Supt. Noted Nov. 2.

Ont., Hamilton—City soon receives bids for water system. About $300,000. J. Baier, Supt. Noted Oct. 12.

Ont., Strathroy—Provincial Health Dept. authorized installation of chlorination plant. F. W. Atkinson, Town Clk.

Man., Winnipeg—Greater Winnipeg Water Dist. Comrs. receiving bids Nov. 27 for 200,000 bbl. portland cement in connection with water system. R. D. Waugh, Chn. Noted July 13.

Man., Winnipeg—(Official)—Greater Winnipeg Water Dist. Comrs. receiving bids Dec. 18 for 9.5 mi. of 5-ft. 6-in. rein.-con. pressure pipe. R. D. Waugh, Chn. Noted July 13. (See adv.)

B. C., Penticton—City plans election in January to vote on $15,000 by-law for water system. W. H. Murfitt, Supt.

Bids In and Contracts Awarded

Mass., Worcester—(Official)—City to install filter plant on Wiser Ave. by day labor. Noted Nov. 9.

N. Y., New York—(Manhattan)—Borough received low bids for 12-in. steel or w.-i. water main and appurtenances on Queensboro Bridge, also hauling and laying connecting c.-i. mains in Boroughs of Manhattan and Queens, from T. Crimmins Construction Co., 440 East 69th St., $33,166; Lupfer & Rennick, Buffalo, $35,068; Beaver Engineering and Construction Co., 51 Chambers St., $35,498. Noted Nov. 2.

Penn., Erie—(Official)—Hammermill Paper Co. let contract venturi meter for filter plant to BUILDERS IRON FOUNDRY, Providence, R. I.

Ohio, Alliance—(Official)—City let contract water meters to GAMON METER CO., Alliance. Noted Oct. 5.

Ohio, Ironton—City let contract filter plant to NEW YORK CONTINENTAL JEWEL FILTRATION CO., 15 Broad St., New York.

Ohio, Ironton—City let contract pumping station and intake wells to BESIDERRO & SATTLER, Rochester, N. Y., $65,000. Noted Sept. 7.

Ohio, Marietta—(Official)—City to extend water mains by day labor. W. M. Morse, Supt. Noted Nov. 9.

Mich., Lansing—(Official)—Bd. Water and Electric Light Comrs. let contract 2 concrete reservoirs to ARMSTRONG ENGINEERING CO., Taylorville, Ill., $75,683. Noted Oct. 19 and Nov. 9.

Neb., Omaha—Metropolitan Water Dist. to extend water mains by day labor. R. B. Howell, Mgr.

Neb., Pender—(Official)—City let contract extending water mains to P. KRUSE, Spencer, Iowa, $5,500. Noted Nov. 9.

S. D., Hitchcock—City let contract 2,270 ft. 4-in. water mains and 3,445 ft. 8- to 15-in. storm water drains to SCHRUTH & JACKSON, Sioux City, Iowa, $4,556. Noted Oct. 5.

Mo., Rockport—City received low bid for improving water system from H. G. Readecker, Rosedale, Kan., $9,050.

Calif., San Francisco—Bd. Pub. Wks. let contract pipe for Hetch Hetchy water system to WESTERN PIPE AND STEEL CO., $7,558.

Ont., Hespeler—Council let contract extending water system to J. McDONNELL, Gadshill. Noted July 20.

Ont., Toronto—Bd. Control let contract 10 lengths 20-in. c.-i. pipe to NATIONAL IRON WORKS, LTD., Cherry St., $5,820 per length.

SEWERS

Proposed Work

Conn., Stratford—(Official)—Town retained Clyde Potts, Engr., 30 Church St., New York, to make plans for 60-mi. sewers and disposal plant. About $450,000.

N. Y., New York—(Manhattan)—M. M. Marks, Boro. Pres., Room 2032 Municipal Bldg., receiving bids Nov. 24 for sewers and receiving basins in portions of Transverse Rd., Spruce, 48th, Thompson and East 76th St., and Park Row and Centre St.

N. Y., Rochester—Council voted sewers in Keller, Ohio, Kansas St. and Blossom Rd. About $32,800. F. S. Elwood, City Engr.

N. J., Bayhead—Borough making plans for sewer system. About $61,000.

N. J., Newark—Bd. Pub. Wks. will build 54-in. concrete sewer in Delvan Ave., also install 10-, 12- and 18-in. pipe in Elwood Ave., Seabury St. and Peabody Pl. M. R. Sherrerd, City Engr.

Penn., Albion—City soon votes on $30,000 bonds for sewage works. Noted June 22.

Penn., Clifton Heights—City voted $70,000 bonds for sewer system and improving streets. Noted Sept. 28.

Penn., Westfield—City making plans for sewer system. About $58,000. W. C. Emigh, Engr.

Penn., Youngsville—City plans sewage plant. C. C. Hyde, North East, Engr.

Md., Hagerstown—City receiving bids Nov. 20 for sewer system. J. B. Ferguson, City Engr. John Carmichael, Chn. Sewer Com. Noted May 25.

W. Va., Wellsburg—City making plans for sewer system. About $85,000. Noted Sept. 14.

S. C., Conway—See item under "Water-Works."

Ohio, Barberton—City plans disposal plant. About $150,000. R. W. Pratt, Hippodrome Bldg., Cleveland, Engr.

Ohio, Bellefontaine—Council passed ordinance for sanitary sewer in Staunton Ave. C. A. Inskeep, City Engr.

Ohio, Canton—City passed ordinance for sanitary sewer in portion Bedford Ave., N. W. C. A. Stolberg, Mayor.

Ohio, Cincinnati—City passed ordinance for sewers in portions Burr, Oak St. and Alpine Pl. F. Krug, City Engr.

Ohio, Cincinnati—Council passed ordinance for sewers in Highland Ave., Corporation Alley, Cumber and Liberty St. About $14,330. F. Krug, City Engr.

Ohio, Cleveland—City receiving bids Nov. 23 for extending sewer in portion Pratt St. R. Hoffman, City Engr.

Ohio, Elyria—Council passed ordinance for sanitary sewer in portion Broad St. C. M. Thebold, City Engr.

Ohio, Fremont—Council plans sewer in Everett St. C. A. Hochenedel, City Engr

Ohio, Lima—(Official)—City defeated $500,000 bonds for improving storm sewers. C. Bryson, City Engr. Noted Oct. 5.

Ohio, Miamisburg—(Official)—City defeated $100,000 bonds for sanitary sewers. Noted Nov. 2.

Ohio, Niles—Council voted to install sewers in Federal, West, Bond and Evans St. H. W. Turner, City Engr.

Ohio, Norwood—Bd. Pub. Ser. receiving bids Nov. 20 for sewer in portion Serpentine Ave. H. D. Armstrong, Clk.

Ohio, Tiffin—Council passed ordinance for sanitary sewer in Grace St. W. H Keppel, Mayor.

Ohio, Youngstown—Council passed ordinance for sewer in portion Campbell St. F. M. Lillie, City Engr.

Ind., Gary—Bd. Pub. Wks. making plans for sewer system. W. J. Fulton, Engr.

Mich., Kalamazoo—(Official)—City defeated $225,000 bonds for storm sewers. A. Lenderink, City Engr. Noted Oct. 26.

Ill., Chicago—(Official)—Sanitary Dist. of Chicago receiving bids Nov. 23 for furnishing, fabricating and delivering metal work for supports for an elevated spur track at Lawrence Ave. Sewage Pumping Station, Lawrence Ave. near Broadway. J. McGillen, Clk. (See adv.)

Ill., Clinton—City to issue $20,000 sewer bonds. W. Lemon, City Engr.

Wis., Hartford—City making plans for sewer system.

Iowa, Creston—City plans improving sewer system. T. S De Lay, City Engr.

Iowa, Fayette—City receiving bids Nov. 21 for sewer system. About $17,500. G. H. Bishop, City Hall, Engr. Noted Nov. 2.

Iowa, Rockwell City—Town Council making plans for disposal plant. F. E. Burnham, Town Clk. Noted Nov. 2.

Minn., Ada—City retained L. P. Wolff, Engr., 1001 Germania Life Bldg., St. Paul, to make plans for storm sewers and disposal plant. About $25,000.

Kan., Hanover—(Official)—City receiving bids in December for sewer system. Black & Veatch, Inter-State Bldg., Kansas City, Mo., Engr. Noted Nov. 2.

Kan., Hutchinson—City soon to let contract for storm sewer. About $100,000. G. L. McLane, City Engr. Noted Oct. 26.

Kan., Parsons—City making plans for storm sewer. About $30,000. F. M. Harr, Engr.

Kan., Pittsburg—City receiving bids Nov. 25 for storm sewers. About $10,000. L. E. Curfman, City Engr.

Neb., Grand Island—City plans extending sewer system. About $250,000. H. W. Kibley, City Engr.

Neb., Randolph—City defeated $5,000 sewer bonds. Noted Sept 21.

Neb., Red Cloud—City receiving bids Nov. 24 for sewer system. About $20,000. Grant & Fulton, Banker's Life Bldg., Lincoln, Engr. Noted Nov. 2.

Mont., Hinsdale—City plans sewer system. About $10,000.

Mo., Carl Junction—City voted $20,000 sewer bonds. A. C. Moore, Frisco Bldg., Joplin, Engr.

Tex., Post City—Post City Sanitarium Corporation plans sewer system. T. Herd, interested.

Okla., Beggs—Citizens voted $18,000 sewer bonds. McIntosh-Walton Co., Oklahoma, Engr.

Okla., Cordell—City soon receives bids for sewer system. About $70,000. Benham Engineering Co., Colcord Bldg, Oklahoma, Engr. Noted Aug. 31.

Okla., Oklahoma—City making plans for sewer system. About $200,000. G. V McClure, Engr.

Okla., Sand Springs—City soon receives bids for storm sewer. About $30,000. Benham Engineering Co., Colcord Bldg., Oklahoma, Engr. Noted Sept. 7.

Ont., Hamilton—City made plans for Southwest Sewer System. Bids soon. About $14,000. E. V. Gray, Engr.

Bids In and Contracts Awarded

Conn., Hartford—Bd. Contract and Supply let contract 1,995 ft. 66-in. and 73½-in. sewer in Olds Pl. and South St. to F. A BARENE, 16 Winchester St., Hartford, $48,715. Noted Nov. 9.

N. Y., East View—Westchester County let contract disposal plant at East View to F. N. LEWIS, 411 Manhattan St., New York, $5,850.

N. Y., Fulton—City rejected bids for storm sewers. C. Milton Allen, Jr., City Clk. Noted Aug 17.

N. J., Union—(Official)—Union Township let contract for sewers and disposal plant to JANNEROM CONTRACTING CO., 225 Passaic Ave., Belleville. Noted Oct. 19.

Ala., Birmingham—City Comn. let contracts 20,855 lin.ft. 8-in. T. C. pipe, 4- to 16-ft. sanitary sewers in Enon Ridge, and 4,530 lin.ft. brick storm sewers to SULLIVAN, LONG & HAGGERTY, Bessemer, $12,602 and $20,120 respectively, and sanitary sewers on south side to J. J. GODDARD, Birmingham, $15,333.

Ohio, Coshocton—City rejected bids for 36-in. sewer in Mulberry and Orange St. A. Fisher, City Engr.

Ohio, Homerville—City let contract sewers to G A. GESSNER CO., $40,836.

Ohio, Port Clinton—City let contract Washington St. Sewer to C. L. WRIGHT, 105 East Broad St., Cuyahoga Falls, $14,038. Noted Nov. 2.

Ohio, Youngstown—(Official)—City let contract sewers in portion Hillman St. to C. C. HARRIS, La Clede and Oak Hill Ave., Youngstown, $10,258. Noted Oct. 19.

Mich., Lansing—City let contract Lyons Ave. sewer to J. BRAY.

Ill., Cairo—City let contract improving Commercial Ave. sewer to F. W. KELLER, Cape Girardeau, Mo., $20,192.

Ill., Evanston—Bd. Pub. Wks. let contract sewer in Greenleaf St. to C T. BARTLETT CO., Evanston, $56,719. Noted Nov. 2.

Ill., Springfield—Council let contract sewers in portions Sangamon, 16th and 17th St. to H. NELCH & SON.

Iowa, Davenport—City let contract extending Marquette and Warren St. sewers to D. E. KEELER CO., Davenport. Noted Oct. 26.

Iowa, Davenport—City let contract storm sewers in High and Myrtle St. to D. E. KEELER CO., Davenport, $77,471.

Iowa, Emmetsburg—(Official)—City let contract storm sewers to ZITTERELL & SULLIVAN, Webster City, $4,430. Noted Nov. 2.

Minn., Brainerd—(Official)—City let contract lateral sewers in Dists. Nos. 1, 4, 5 and 8 to ILLSTRUP & OLLSEN, Minneapolis, $4,560. Noted Oct. 26.

Minn., Dawson—City let contract sewer system to THORNTON BROS. CO., Scandanavian American Bank Bldg., St. Paul, $56,000. Noted Nov. 9.

Kan., Parsons—City let contract storm sewer tunnel for Insane Asylum to J. M. LEEPER, Topeka. About $5,000.

N. D., Fargo—City let contract 12-in. sewer in portion 11th St to HAGGART CONSTRUCTION CO., $1.25 per lin.ft.

Mont., Big Timber—(Official)—City let contract sewer system to G. NORDQUIST, Great Falls, $38,750. Noted Nov. 2.

Mo., Kansas City—City let contract sewers in Dist. No. 316 to HOOVER BROS., 1220 East 18th St., Kansas City, $4,575.

Mo., Kansas City—City let contract sewers in Dist. No. 443 to HALPIN & BOYLE, 709 Railway Exchange Bldg., $7,582.

Mo., Sedalia—(Official)—City let contract disposal plant and improving sewers to J. W. MENEFEE, Sedalia, $58,824. Noted Oct. 26.

Calif., Los Angeles—City let contract sewer in Florence Ave. to J. RADICH, $112,306. Noted Nov. 9.

GARBAGE

Proposed Work

Penn., Reading—Council receiving bids Nov. 22 for garbage disposal plant. C. Marks, City Clk. Noted Oct. 12.

Bids In and Contracts Awarded

Ohio, Canton—Council let contract disposal of garbage for period of 10 years to CANTON FERTILIZER CO. Noted Oct. 12.

STREETS AND ROADS

Proposed Work

Mass., Amesbury—City plans to repave Main St N. E. Collins, City Engr.

Mass., Holyoke—Bd. Pub. Wks. plans to pave portion Pine St., concrete. T. J. McCarthy, City Engr.

Mass., Methuen—Massachusetts Highway Comn., Room 212 State House, Boston, receiving bids Nov. 21 for section state highway in Methuen.

Mass., Quincy—City plans to widen School St. P F. O'Brien, City Engr.

N. Y., New York—(Brooklyn)—L. H. Pounds, Boro. Pres., Room 2, Boro. Hall, receiving bids Nov. 24 for improving portions East 34th, Powell, West 15th and 79th St., asphalt.

N. J., Bayonne—Bd. Comrs. plans to pave West 16th St., asphalt. W. L. Clarkson, City Engr.

N. J., Bound Brook—Borough sold $29,000 bonds for paving Shunpike and Talmage Ave., brick.

N. J., Flemington—Bd. Freeholders Hunterdon County plans to improve Stockton-Frenchtown Rd. Address County Clk., Flemington.

N. J., Hackettstown—Citizens voted $5,000 for street improvements.

N. J., Hawthorne—Bd. Comrs. plans $20,000 bond issue for improving 17 streets. J. A. Shea, Boro. Clk.

N. J., Newton—Sussex County voted $12,000 bonds for concrete road on Spring St. Address County Clk., Newton. Noted Sept. 21.

N. J., South Orange—Town plans to pave Wellesley St., macadam. E. R. Arcularius, Clk.

Penn., Erie—City plans to pave portions Liberty, Reed and 25th St., 6 mi. in 5th Ward and West 26th St., cost to be borne by Buffalo & Lake Erie Traction Co., also extend State St. F. G. Lynch, City Engr.

Penn., Mt. Penn—Borough voted $15,000 street improvement bonds. G. C. Hartline, Secy. Noted Oct 26.

Penn., Philadelphia—Council plans to pave Germantown and Chelton Ave., granite block. C. Albright, City Engr.

Penn., Radnor—Town plans $100,000 bond issue for road work.

Penn., Scranton—Council plans to improve portion Pennsylvania Ave., asphalt. About $33,922. W. Schunk, City Engr.

Penn., Wilkes-Barre—Luzerne County making plans for road from Laurel Run to Ashley Blvd. Smith & Welles, Coal Exchange Bldg., Engr.

Penn., York—City plans to pave about 16,140 yd., pine blocks, next summer. C. F. Wallow, City Engr.

Md., Baltimore—(Official)—State Rds. Comn., 601 Garrett Bldg., receiving bids Nov. 21 for Contract No. Wi-10, Wicomico County, 1 section road from Powellville, concrete or oil macadam, about 3 mi. toward Willards; Contract No. Wo-15, Worcester County, 1 section road from Snow Hill about 2½ mi. toward Girdletree. F. H. Zouck, Chn. (See adv.)

Md., Baltimore—City voted $2,000,000 bonds for street improvements in Annex and $1,000,000 for improvements in old city limits. Former amount to be spent under supervision of Comrs. for Opening Streets and Annex Com. R. M. Cooksey, City Engr. Noted Oct. 5.

Md., Baltimore—City receiving bids Nov. 22 for improving alleys, Contract A-3. R. M. Cooksey, Engr.

Va., Clarendon—Alexandria County Comrs. plan to spend $118,615 for roads in Washington Dist., also road paralleling tracks of Washington-Virginia Ry., Mt. Vernon Rd. with $20,000 state-aid, Glebe Rd., about $78,657, and Vacation Lane Rd. G. H. Rucker, Clarendon, County Clk.

Va., Richmond—City soon receives bids for graveling roadbed of portion 44th St. C. E. Bolling, City Engr.

W. Va., Grafton—(Official)—Taylor County defeated $100,000 bonds for roads from Grafton to Knottsville and Fetterman Dist., about 19 mi. Noted Oct. 26.

W. Va., Landisburg—Fayette County making surveys for 34 mi. roads. Address County Clk., Fayetteville.

W. Va., Winfield—Putnam County, Poco Dist., receives bids in spring for about 8 mi. brick or macadam road. About $90,000 available. J. M. Henson, Winfield, Clk. Noted Nov. 9.

Streets and Roads (Continued)

N. C., Salisbury—City receiving bids Nov. 20 for paving streets Dist. No. 2, concrete, asphalt or bitulithic. J. W. Webb, City Engr.

Ga., Augusta—City plans to pave Central Ave. About $18,000. Nisbet Wingfield, City Engr.

Ga., Louisville—(Official)—Jefferson County did not vote $52,000 road bonds. Noted Nov. 2.

Fla., DeLand—City receiving bids Dec. 1 for 31,653 sq.yd. brick paving and 38,592 lin.ft. cement curbing. J. B. McCrary Co., Atlanta, Ga., Engr.

Fla., Tampa—Hillsborough County, Wimauma Dist., defeated $22,500 bonds for road from Wimauma south to county line and bridge over Little Manatee River. Address County Clk., Tampa. Noted Oct. 12.

Ala., Birmingham—G. H. Clark, Highway Engr. Jefferson County, submitted report estimating cost improving 5,100-ft. Oxmoor Shannon Mines Rd., eliminating grade crossing near Oxmoor Furnace of Tennessee Co. and Oxmoor Dept. of Louisville & Nashville R.R. at $18,815.

Ala., Eutaw—Green County receiving bids Dec. 4 for grading and draining State Trunk Rd. No. 7. W. S. Keller, Montgomery, State Highway Engr.

Miss., Aberdeen—Monroe County plans to issue bonds to improve roads in Dist. No. 2. G. G. Ray, Aberdeen, Clk. Bd. Supervs.

Miss., Canton—Madison County sold $126,000 road improvement bonds. D. C. McCool, Canton, County Clk.

Miss., Ellisville—Jones County voted $200,000 road bonds. Address County Clk., Ellisville. Noted Oct. 26.

Miss., Waynesboro—Wayne County soon votes on $25,000 road improvement bonds. Address County Clk., Waynesboro.

La., Crowley—Acadia Parish plans election to vote on $600,000 road bonds. D. W. Thibodaux, Crowley, Secy. Police Jury. Noted Nov. 9.

La., Marksville—Avoyelles Parish Rd and Drainage Dist. No. 4, voted $300,000 bonds for reconstructing road from Bonte du Bayou Swamp to Bayou Chotaw, about 12 mi. Address Police Jury, Marksville.

Ky., Cadiz—Trigg County sold $90,000 road bonds. Address County Clk., Cadiz. Noted June 29.

Ky., Owensboro—Davies County Fiscal Court receiving bids Nov. 24 for Letchfield Rd.

Ky., Paducah—(Official)—McCracken County voted $200,000 road bonds. Address County Clk., Paducah. Noted Nov. 2.

Ky., Pineville—Bell County voted $105,000 road bonds. Address County Clk., Pineville. Noted Sept. 28.

Ky., Stanton—Fiscal Court Powell County to sell $40,000 road bonds Nov. 22. I. S. Boone, Stanton, County Clk. Noted Apr. 27.

Ohio, Attica—Village to sell $15,000 bonds Nov. 27 for improving portions Columbus-Sandusky Rd. F. R. Stutzman, Clk.

Ohio, Cambridge—City plans to spend about $75,000 or $100,000, for brick paving. J. M. Dilley, City Engr.

Ohio, Canton—City plans to pave Shorb Ave. W. E. Sarver, City Engr.

Ohio, Cleveland—City voted $3,000,000 paving bonds. R. Hoffman, City Engr. Noted Oct. 5.

Ohio, Cleveland—Council passed ordinance to pave Cromwell and Buckingham St., to widen and pave portion Denison Ave. and to grade Harvard Ave. Robert Hoffman, City Engr.

Ohio, Cleveland—(Official)—City receives bids some time in spring for repaving and widening Cedar Ave., block stone or wood block. about $127,600. R. Hoffman, City Engr. Noted Nov. 2.

Ohio, Cleveland Heights—(Warrensville post office)—Town receiving bids Dec. 18 for paving 13 streets. H. H. Canfield, Clk. F. A. Pease Engineering Co., 804 Marshall Bldg., Cleveland, Engr.

Ohio, Dover—Council plans to pave portion West 6th St. G. E. Arnold, City Engr.

Ohio, Dover—Tuscarawas County plans to pave 1½ mi. Strusburg-Boliver Rd. Address County Clk., New Philadelphia.

Ohio, Greenville—(Official)—City does not plan to pave, curb and gutter Vine St. Noted Nov. 2.

Ohio, Lorain—(Official)—City receives bids about March for paving 13th St., brick or asphalt. About $14,300. C. M. Osborn, City Engr. Noted Nov. 2.

Ohio, Massillon—(Official)—City defeated $90,890 street improvement bonds. Noted Nov. 2.

Ohio, Painesville—Lake County making surveys for about 7 mi. brick paving on North Ridge Rd., $75,000; also plans 4 mi. brick paving on Lost Nation Rd. G. P. Cummings, Court House, Engr.

Ohio, Portsmouth—Council receiving bids Nov. 18 for improving portion Dexter Ave., brick. P. G. Harper, City Engr. Noted Nov. 9.

Ohio, Sidney—City receiving bids Jan. 1 for paving 6 mi. streets. T. Blake, City Engr. Noted Nov. 2.

Ohio, Tiffin—City plans to issue $36,500 bonds for improving Apple, East Perry and Douglas St. L. O. Runkle, City Engr.

Ohio, Willoughby—City plans to pave portion Elm St., brick. C. Clerk, Engr.

Ohio, Youngstown—City plans to pave East Market St. F. M. Lillie, City Engr.

Ind., Angola—Steuben and De Kalb Counties, Angola, receiving bids Dec. 5 for county line road. F. C. Dewey, Angola, Audr. Noted Sept. 14.

Ind., Clinton—City receives bids in December for 6,851 sq.yd. brick paving and 4,761 lin.ft. concrete curb and gutter. About $18,000. W. Lemoa, City Engr. Noted Nov. 2.

Ind., Newport—Vermillion County receiving bids Dec. 4 for gravel road in Helt Township. Roy Slater, Newport, Audr.

Ind., Rensselaer—Jasper County receiving bids Dec. 5 for stone road in Union Township. J. P. Hammond, Rensselaer, Audr.

Ind., Rensselaer—Jasper County receiving bids Dec. 5 for road in Keener Township. J. P. Hammond, Rensselaer, Audr.

Ind., Terre Haute—Vigo County receiving bids Nov. 25 for gravel road in Harrison and Honey Creek Townships. T. Ferguson, Terre Haute, Audr.

Mich., Marquette—Marquette County plans to spend about $94,000 for road and bridge work during 1917. Address County Clk., Marquette.

Mich., Petoskey—Emmet County plans to spend about $53,348 for road work in Petoskey Dist., Cross Village Pike and Mackinaw Pike Nos. 2, 5, 6 and 7. Address County Clk., Petoskey.

Mich., Traverse City—Grand Traverse County appropriated $38,157 for road work next year. Address County Clk., Traverse City.

Ill., Forest Park—Bd. Local Impvts. receiving bids Nov. 21 for improving portion South Desplaines Ave., brick. R. E. Williams, 118 North La Salle St., Chicago, Engr. Noted Aug. 17.

Ill., Highland Park—City making plans for 600-ft. concrete surfacing in Chicago Ave. and about 15,000 sq.yd. concrete paving, including curbing and guttering in Cedar Ave. Dist. E. E. Russell, Engr.

Ill., Moline—City plans to lay 15 mi. cement sidewalks. L. Payton, City Engr.

Ill., Winnetka—Village made plans for paving South East Dist. About $200,000. Windes & Marsh, Engr.

Wis., Janesville—(Official)—Bd. Pub. Wks. received no bids curbing and guttering 8 streets. C. V. Kerch, City Engr. Noted Oct. 19.

Wis., Ladysmith—City plans to pave portion Miner Ave. in spring. E. R. Kirvan, City Clk.

Iowa, Carroll—City plans to pave 15 blocks. G. C Beiter, City Engr.

Iowa, Grundy Center—Bd. Pub. Wks. receives bids sometime in January for 37,639 sq.yd. paving, asphalt, concrete or brick and concrete curb. About $80,000. E. A. Crary, Grundy Center, Engr. Noted Sept. 14.

Iowa, Marshalltown—City soon receives bids for paving portions 4th, 5th and Hughes St. W. H. Steiner, City Engr.

Minn., Center City—Chisago County plans to improve 31¼ mi. Twin Cities-Duluth Highway by state, Federal and private aid. Comrs. plan to have $105,750 available by next summer. Address County Clk., Center City.

Kan., Ft. Scott—Bourbon County plans to improve 9 mi. Fulton Rd., 7½ mi. Walkertown Rd. and 11½ mi. Pawnee Rd. E. E. Toles, Court House, Engr.

Kan., Girard—Crawford County making plans for improving 25 or 30 mi. Jefferson Highway. Address County Clk., Girard.

Kan., Pittsburgh—City to receive bids in spring for 1¼ mi. paving on Elm St. L. E. Curfman, City Engr.

Neb., Falls City—City receiving bids Nov. 30 for paving portion Stone St., Dist. No. 17. About $5,055. F. Smith, City Clk. Noted Oct. 26.

Neb., Kearney—City plans to pave streets in 13th and 17th Dists. E. H. Morey, City Engr.

Neb., Lincoln—Lancaster County voted $500,000 road bonds. H. E. Wells, Lincoln, County Clk. Noted Nov. 2.

Ark., Clarksville—Johnson County plans to organize district to spend about $200,000 for road work. Address County Clk., Clarksville.

Ark., Eureka Springs—Rd. Dist. No. 1, Carroll County, soon receives bids for $70,000 worth road work. W. C. Ross, Eureka Springs, Engr.

Ark., Ft. Smith—Paving Dist. No. 5 plans to issue $100,000 road bonds next spring. M. H. Reed, City Engr.

Ark., Lake Village—State Highway Dept., Little Rock, made preliminary plans for road from Louisiana line to Dermot and Desha County line. About $259,368. H. R. Carter, Little Rock, State Highway Engr.

Tex., Bandera—Bandera County voted $22,000 bonds for roads in Dist. No. 2. Address County Clk., Bandera.

Tex., Brady—McCulloch County made plans for 2 roads on Puget Sound to Gulf Highway in Melvin and Boca Dist. About $46,000. Address County Clk., Brady.

Tex., Cameron—Milam County voted $15,000 road bonds for Dist. No. 7. Address County Clk., Cameron. Noted Oct. 5.

Tex., Center—Shelby County plans to issue $120,000 road bonds. Address County Clk., Center.

Tex., Dallas—Dallas County voted $500,000 bonds for concreting roads in overflow districts. Address County Clk., Dallas. Noted Oct. 11.

Tex., Dallas—City plans to pave portion Henderson, Birmingham and Terry St., natural lake asphalt. H. Moseley, City Engr.

Tex., Georgetown—City plans to pave public square and several other streets. About $25,000.

Tex., McKinney—Collins County voted $450,000 road bonds McKinney Dist., $125,000 Celina Dist., $90,000 Princeton Dist. and $200,000 Farmersville Dist. Address County Clk., McKinney.

Tex., Sherman—Grayson County soon lets contract for road work in Hagerman Dist. About $10,000.

Tex., Taylor—City sold $50,000 paving bonds. W. E. Dozier, City Engr. Noted June 29.

Okla., Beaver—Beaver County plans to vote on bonds for roads in Liberal Township. Address County Clk., Beaver.

Okla., Drumright—(Official)—City receiving bids Nov. 20 for 34,500 sq.yd. brick paving, 10,000 lin.ft. curb, etc. J. Fogale, City Clk. (See adv.)

Okla., Fairview—Major County plans 6 mi. road work. Plans approved by M. R. Cunningham, Engr. State Highway Comn., Oklahoma. Address County Clk., Fairview.

Okla., Hollis—Harman County plans to vote on $15,000 road bonds. Address County Clk., Hollis.

Okla., Oklahoma—Oklahoma County, Council Grove Township, election about Jan. 1 to vote on $50,000 road bonds. Address County Clk., Oklahoma.

Okla., Talihina—Le Flore County, Buffalo Township, voted $10,000 road bonds. Address County Clk., Poteau. Noted Apr. 6.

Wash., Camas—City receiving bids Nov. 28 for improving portion 4th St. About $15,431. C. E. Farr, City Clk.

Wash., Colfax—Whitman County receiving bids Nov. 20 for graveling 3¼ mi. Permanent Highway No. 13. A. R. Metz, Colfax, Audr.

Wash., Everett—Snohomish County plans to spend about $1,194,000 for road work next year. M. Weatherbee, Everett, County Audr.

Wash., Goldendale—Klickitat County plans to spend $21,416 for permanent highways, $15,000 for bridges and roads and $52,205 for road district work next year. W. Ward, Goldendale, County Engr.

Wash., Kalama—Cowlitz County plans to spend $117,000 for road and bridge work next year. R. C. Westwick, Kalama, County Engr.

Wash., Mt. Vernon—Pasco County plans to spend about $15,000 for permanent highways, $11,398 for road and bridge work and $20,608 for road district work durnig 1917. J. W. Hamilton, Mt. Vernon, County Engr.

Wash., Mt. Vernon—(Official)—City receives bids about Mar. 1 for curbing and paving portion 4th St., concrete, about $18,934. E. Crookston, City Clk. Noted Oct. 26.

Wash., Mt. Vernon—City plans to pave Cleveland Ave. to city limits, concrete walks in portion Gates St., curbs and walks in 3d St. and Highland Ave. and improving 4th St., concrete. L. Caufield, City Engr.

Wash., Pomeroy—Garfield County plans to spend about $16,000 for permanent highways, $11,398 for road and bridge work and $61,120 for road district work next year. W. Rigsby, Pomeroy, County Engr.

Wash., Prosser—Benton County plans to spend $18,715 for permanent highways, $40,084 for road and bridge work and $50,845 for road district work during 1917. T. J. Wright, Prosser, County Engr.

Wash., Seattle—A. H. Dimock, City Engr., estimates cost grading, curbing and concrete walks on 31st Ave., N. E., at $29,816.

Wash., Spokane—Comrs. Spokane County, State Officials of Idaho and Blanchard Township Officials plan scenic highway from Spokane and peak of Mt. Spokane to Blanchard and Spirit Lake, Idaho. Address County Clk., Spokane.

Wash., Spokane—Spokane County plans permanent highway from Cheney to Spangle. J. W. Strack, Spokane, County Engr.

Wash., Spokane—Spokane County plans 10½ mi. macadam highway from Dishmon to Freeman, about $50,000. J. W. Strack, Spokane, County Engr.

Wash., Stevenson—Skamanea County plans to spend about $7,932 for permanent highways, $21,000 for road and bridge work and $20,608 for road district work next year. H. Bueche, Stevenson, County Engr.

Wash., Waterville—Douglas County plans to spend $17,392 for permanent highways, $24,527 for bridges and roads and $30,000 for road district work next year. R. F. Foster, Waterville, County Engr.

Ore., Astoria—City soon lets contract for paving portion Franklin Ave. and other streets and macadamizing and cement walks on Duane St. G. T. McClean, City Engr. Noted Aug. 10.

Ore., Grants Pass—Josephine County plans highway between Grants Pass, Ore., and Crescent City, Calif. Address County Clk., Grants Pass.

Calif., Delano—City plans to pave several miles streets.

Calif., Los Angeles—City soon lets contracts for improving Hillhurst Ave. and 5th and Agatha St. H. Hamlin, City Engr.

Streets and Roads (Continued)

Calif., San Francisco—M. M. O'Shaughnessy, City Engr., estimates cost of proposed highway, boulevard and road projects at $30,000,000.

Ont., London—City plans paving portion Adelaide St., asphalt, about $29,975. S. Baker, City Clk.

Ont., Petrolia—Town plans cement sidewalks on Main St. J. McHattie, Clk.

Ont., Ridgetown—Council plans cement sidewalks on Church St. D. Cochrane, Clk.

Ont., Toronto—City plans macadam roadway on Merton St., about $5,500.

Bids In and Contracts Awarded

Maine, Bangor—City let contract wood block pavement and bridge repairs to J. GRADY & SON, Bangor.

Mass., Lawrence—City let contract paving to GOFF & WELLS CONSTRUCTION CO., Lawrence, about $30,000.

Mass., Revere—State Highway Comn., Boston, let contract section highway in Revere to A. G. TOMASELLI, 69 Gibson St., Dorchester, about $55,848.

Conn., New London—State Highway Comn. let contract about 30,000 sq.ft. concrete sidewalk to J. FOWLER, 181 Ocean Ave.

N. Y., Mt. Morris—Livingston County let contract road between Groveland and West Sparta to ATLANTIC CONSTRUCTION CO., Atlanta, about $34,856.

N. Y., New Rochelle—Dept. Pub. Wks. let contract paving to WILKES-CASEY ENGINEERING AND CONSTRUCTION CO., 12 Lawton St., about $8,620.

N. Y., New York—(Brooklyn)—L. H. Pounds, Boro. Pres., received low bids paving portions streets with asphalt (a) Caton Ave., (b) Bay 19th St., (c) East 12th St., (d) Thatford Ave., (e) 23rd St., (f) 81st St., (g) trap rock, (h) trap rock screenings, as follows: Cranford Bros., 52 9th St, (a) $2,394; (b) $6,982, (e) $7,165; Uvalde Asphalt Paving Co., (c) $4,985; Borough Asphalt Co., 1301 Metropolitan Ave., (d) $4,367; Brooklyn Asphalt Co., 407 Hamilton Ave., (f) $5,737; New York Trap Rock Co., 17 Battery Pl., Manhattan, (g) $1.78 cu.yd., (h) $1.78 cu.yd. Noted Nov. 2.

N. Y., New York—(Manhattan)—M. M. Marks, Boro. Pres., received low bid paving with granite block portions 181st St. from Asphalt Construction Co., Madison Ave. and 137th St., $10,833. Noted Nov. 2.

N. Y., New York—(Manhattan)—(Official)—Boro. let contract repaving south road Williamsburg Bridge to M. J. O'HARA, 577 3rd St., Brooklyn, $32,841. Noted Oct. 5.

N. Y., New York—(Manhattan)—(Official)—Borough let contract paving portions Seaman Ave. and 218th St. to UVALDE ASPHALT PAVING CO., 1 Broadway, about $9,219 and $4,677 respectively. Noted Oct. 26.

N. Y., New York—(Queens)—(Official)—Borough received low bids paving from Sicilian Asphalt Paving Co., 41 Park Row, Manhattan, $8,644, 4th St.; C. A. Myers Contracting Co., Stagg St., $8,205, DeKalb Ave., $11,160, Nott Ave. Noted Nov. 2.

N. J., Audubon—Borough let contract paving to F. FRIES CO., Haddon Heights, about $200,000.

N. J., Bayonne—City let contract paving Evergreen St. to W. T. S. CRITCHFIELD, Hoboken, about $17,635. Noted Nov. 9.

N. J., Glen Ridge—Borough let contract paving Ridgewood Ave. to OSBORNE & MARCELLIS, Montclair, about $54,890. Noted Sept. 14.

N. J., Mt. Holly—Burlington County let contract 1½-mi. road to NEWTON PAVING CO., Broad St. Bank Bldg., Trenton, about $20,000.

N. J., Newark—City received low bid paving portion High St. from A. J. Milmoe, 85 Littleton Ave., about $19,065. Noted Sept. 21.

N. J., Newark—City received low bid paving Mapes Ave. from Standard Bitulithic Co., Essex Bldg., about $9,316. Noted Sept. 7.

N. J., Newark—City received low bid paving portion Shephard Ave. from Standard Bitulithic Co., Essex Bldg., about $9,328. Noted Oct. 5.

Penn., Coatesville—(Official)—Council received bids for 5,450-ft. road around shores Rock Run Reservoir from C. H. Dunleavy and B. G. Coon Construction Co. Noted Nov. 2.

Penn., Dickson City—City let contract 15,000 sq.yd. brick paving, 9,000 lin.ft. concrete curb and 30 catch basins to SWEENEY BROS., Miller Bldg., Scranton, about $50,000.

Penn., Nanticoke—City let contract paving, Middle, Locust and Espy St. to C. REES, 317 East Noble St.

Penn., Philadelphia—City let contract grading, sidewalks, railings, etc., in Clarkson Park to F. MARK CONSTRUCTION CO., 2820 North 21st St., about $20,000.

Penn., South Brownsville—Village let contract paving Prospect St. to PATRELLO BROS., about $8,000.

Penn., Union City—City let contract paving Union Township to J. McCORMICK & BRO., Erie, about $6,000.

Penn., West Chester—Chester County let contract road in New Garden Township from Toughkenmon to Delaware to D. E. O'CONNELL & SONS, London Grove, about $9,337. Noted Oct. 26.

Del., Wilmington — (Official) — State Highway Comn. received low bid resurfacing portion Concord Turnpike from Standard Bitulithic Co., care of M. Howe, Ford Bldg., about $33,000. Noted Oct. 19.

Md., Baltimore—(Official)—Bd. Awards let contract Rd. No. 4, Loch Raven, Contract No. 44, Water Dept., to CAROZZA & CHRISTHILF, about $37,139. Noted Oct. 12.

Md., Baltimore—City let contract grading Gwynn's Falls Parkway, 65,000 cu.yd. to T. F. MULLAN, 4001 Greenmount Ave., Baltimore, $18,512.

Va., Norfolk—Seventh Ward Local Bd. let contract 35,000 sq.yd. cement sidewalks to J. U. ADDENBROOKS SON, 307 Arcade Bldg., Norfolk. About $25,000 available.

W. Va., Huntington—City let contract paving portion 11th St., brick, to G. HENKLE.

W. Va., Pennsboro—(Official)—City let contract paving 1½ mi. streets to WINSTON & CO., American National Bank Bldg., Richmond. Noted Oct. 5.

Ga., Atlanta—(Official)—Fulton County let contract 12,000 yd. paving on Virginia Ave., 10,000 sq.yd. on 10th St. and 16,000 yd. gutter to T. D. MEADOR, JR., Atlanta, about $45,000. Noted Oct. 19.

Ala., Birmingham—City Comn. let contract paving portion 11th Ave. to DUNN CONSTRUCTION CO., Chamber of Commerce Bldg., about $8,200. Noted Sept. 28.

Ala., Birmingham—City Comn. let contract paving portion Tuscaloosa Ave. to DUNN CONSTRUCTION CO., Chamber of Commerce Bldg., about $34,300. Noted Oct. 5.

Ala., Birmingham—City let contract paving portion 6th Ave., S., to DUNN CONSTRUCTION CO., Chamber of Commerce Bldg., about $102,480.

Miss., Decatur—Newton County Comrs. let contract grading Mississippi Travelers Highway to FLOYD LOPER, Lake, 2 mi., and L. B. DENNIS, Lawrence, 1 mi.

Tenn., Nashville—City let contract paving Broadway Viaduct to THOMPSON & GRAHAM.

Ky., Owensboro—Daviess County let contract paving West 21st St., Berry, Livermore and River Rd. to MONTGOMERY & PERKINS CO., Dallas, $50,167. Noted Oct. 5.

Ohio, Cincinnati—(Official)—Hamilton County received low bid improving North Bend Rd. from THURBER & BROWNING CO., 4312 Spring Grove Ave., $60,691. Noted Nov. 2.

Ohio, Cincinnati—(Official)—Hamilton County received low bid paving Cameron Rd., concrete, from P. Praechter, 2935 Gerard Ave., $44,232. Noted Nov. 2.

Ohio, Cincinnati—City let contract improving portion Ohio Ave. to GRADISON CONSTRUCTION CO., 244 Melish Ave. Noted Oct. 5.

Ohio, Columbus—City let contract paving alley north Oakland Ave. from Pearl St. to alley west Indianaola Ave. to B. F. PATTERSON, 1214 Neil Ave., Linden Heights, about $6,632.

Ohio, Columbus—State Highway Comn. received bids for 21 mi. highway various counties from: Clinton County, Sect. "B," Wilmington-Xenia Rd., steel bridge, Champion Bridge Co., Wilmington, $4,998; Clinton County, Sect. "A," Wilmington-Hillsboro Rd., macadam, 5.02 mi., Bean & Co., Highland, $20,949; Fairfield County, Sect. "E," Logan-Lancaster Rd., bridges, culverts and grading roadway, 0.59 mi., Wilson & Beckler, Lancaster, $5,639, O. G. Shafer, Caldwell, $5,539; Franklin County, Sect. "F," Columbus-Lancaster Rd., repairing and extending culverts, grading and shaping roadway and resurfacing with bituminous macadam, 1.32 mi., Jones & Gannon, Columbus, $13,717, J. C. McCann & C. E. McCann, Columbus, $13,717, T. Vogelsburg, London, $13,663; alternative bids for solid natural lake asphalt, J. C. McCann & C. E. McCann, Columbus, $14,338, T. Vogelsburg, London, $14,289, J. M. Snouffer, Columbus, $14,338; Putnam County, Sect. "F," Ottawa-Findlay Rd., bridges and culverts, grading and paving with waterbound macadam, 1.65 mi., J. W. McDowell, Ottawa, Ohio, $10,002, J. W. Carey, Ada, $10,412, O. L. Smith, Leipsic, $10,275; Seneca County, Sect. "M," Findaly-Tiffin Rd., macadam, 2.59 mi., Souder & Peters, Fostoria, $15,200, O. H. Baum, Upper Sandusky, $14,750, National Lime and Stone Co., Carey, $14,100.

Ohio, Greenville—Dark County let contract paving portion Greenville-Union City Rd. to STUDEBAKER & SON, about $8,809.

Ohio, Hamilton—City let contract paving portion Park and Elvin Ave. to A. WERTZ TRANSFER CO., Frechtling Bldg., about $8,200.

Ohio, New Lexington—Perry and Fairfield Counties let contract improving about 17 mi. road to GILMORE BROS., about $104,750. Noted Oct. 19.

Ohio, Westerville—(Official)—City let contract paving portion West Broadway and Knox St. to W E. SCHWARTZ, Shepherd, $9,600. Noted Oct. 26.

Ohio, Youngstown—(Official)—City let contract paving portion Cassius Ave. to V. OLSON CONSTRUCTION CO., Mahoning National Bank Bldg., about $12,433. Noted Oct. 19.

Ohio, Youngstown—(Official)—City let contract paving portion Erie St. to V. OLSON CONSTRUCTION CO., Mahoning National Bank Bldg., about $11,708. Noted Oct. 19.

Ind., Indianapolis—City let contract paving Cornelius Ave. to REPUBLIC CONSTRUCTION CO., 31st St., about $4,029.

Ind., New Albany—Floyd County let contract improving Spickert Knob Rd. No. 2 to W. O. SWEENEY & CO., Jeffersonville, about $12,997.

Ind., Rensselaer—City let contract improving Austin and Washington Ave. and South and Grove St. to A. S. Keene, Wheatfield, about $7,829.

Ind., Rensselaer—(Official)—Jasper County let contract roads in Jordan and Marion Townships to F. A. CAMBLIN, Morocco, about $12,998. Noted Oct. 19.

Ind., Shelbyville—(Official)—Shelby County let contract gravel roads in Moral Township to SEXTON & BOLTS, Shelbyville, about $12,216. Noted Oct. 19.

Ind., Terre Haute—Vigo County let contract improving 3 mi. Fruitage Ave. to CAMPBELL & HAWKINS, Brazil, about $20,847.

Mich., Battle Creek—County let contract 2½-mi road to McDERMOTT & COOPER, 325 Willicomb Bldg., about $9,611.

Ill., Ancona—Livingston County let contract paving to A. L. BOOTH, Gardner, about $13,602.

Ill., Sterling—City let contract road work Genessee Vicinity to HESS & WILSON, Sterling, about $25,000.

Wis., Elkhorn—City let contract paving to WESTERN IMPROVEMENT CO., Racine, about $60,000. Noted Oct. 12.

Minn., Vesta—Redwood County let contract grading 5½ mi. road to J. C. CORCORAN.

Kan., Hutchinson—City let contract paving 14th, 15th and 16th St. to STAMEY-MACKEY CONSTRUCTION CO., about $25,000. Noted Nov. 2.

Kan., Lawrence—City let contract improving portion Illinois St. to SPAHR & LOIT.

Neb., Grand Island—(Official)—City let contract paving Dist. No. 20 to TYNOR CONSTRUCTION CO., 1201 Spruce St., Kansas City, Mo. Noted Sept. 28.

Neb., Lincoln—City let contract paving Dist. No. 365 to ABLE CONSTRUCTION CO., about $7,529.

Neb., Lincoln—City let contract paving Dist. No. 374 to MARTIN CONSTRUCTION CO., about $53,204.

Neb., Omaha—City let contract grading portion 29th St. to CARROLL CONSTRUCTION CO., $0.26½ per yd.

Neb., Omaha—Douglas County let contract paving portion of West Center St. to E. GEIGER CONSTRUCTION CO., Leavenworth, Kan. Noted Nov. 2.

S. D., Yankton—Yankton County let contract about 8 mi. grading including grubbing and cleaning to G. A. SIEMBACK.

Mo., Kansas City—City let contracts grading as follows: 35th St., to SPITCAUFSKY BROS., 27th and Main St., 43.5c. cu.yd.; 77th St., to M. HAASE, 2615 Oak St., 22.8c.; 39th St., to W. C. MULLINS, 1230 Montgall St., 16c.; Highland St., to J. TREHEY, 71st and Brooklyn St., 21c.; Belmont St., to HOOVER BROS., 1220 East 18th St., 10.75c.; 61st St., to A. H. PITTENGER, 5839 Troost Ave., 11.90c.

Ark., Texarkana—Bd. Impvt. Dist. No. 20 received bids for 100,000 sq.yd. paving from Burke Construction Co., Ft. Smith; Kaw Paving Co., Topeka; Standard Paving Co., San Antonio. E. F. Peterson, Engr. Noted Oct. 5.

Tex., Gainesville—City let contract paving Lindsay St. to CHEANEY BROS.

Tex., San Antonio—City let contract paving portion Travis St. to RUSHMORE & GOWDY.

Okla., Clinton—(Official)—City let contract paving business district to WESTERN PAVING CO., Oklahoma City, about $68,269. Noted Oct. 19.

Ariz., Tucson—City let contract improving several streets to WARREN BROS. CO., about $50,000.

Ariz., Tucson—City let contract grading streets to J. M. PACHECO & CO., about $5,804.

Wash., Ilwaco—A. Zindolph, Seattle, at $10,999, low bidder paving portion Main St.

Ore., Cornelius—(Official)—City rejected bids for improving Pine and 4th St. Improvement postponed indefinitely. Noted Oct. 26.

Calif., Daly City—City let contract improving streets in West End Homestead Dist. to FEDERAL CONSTRUCTION CO., Sharon Bldg., San Francisco, about $135,858.

Calif., Los Angeles—Los Angeles County let contract improving portion Mission Rd. to G. H. OSWALD, about $25,240.

Calif., Los Angeles—City let contract improving Gordon St. to G. H. OSWALD, $4,727.

Calif., Los Angeles—City let contract paving portion Normandie Ave. to CALIFORNIA-ARIZONA CONSTRUCTION CO., 1700 East Washington St., about $19,813.

Calif., Oakland—City let contract paving oil macadam and cement sidewalks portions of Bissell St. and 51st Ave. to HUTCHINSON CO., 13th and Franklin St., Oakland.

Streets and Roads (Continued)

Calif., Oakland—City let contract sidewalks on Seminary Ave. to J. CATUCCI, 1230 18th Ave., at 18c. per sq. ft.

Calif., Sacramento—City let contract improving portion 20th St. to J. LAWRENCE, Sacramento.

Calif., San Francisco—City let contracts improving portions streets as follows: Noriega St., asphalt, to J. G. HARNEY, 3619 18th St., $4,952; Ortega St., asphalt, to C. B. EATON, 407 11th St., $4,419; Moulton St., granite pavement, to T. A. CLARK, 68 Post St., $4,032.

Calif., San Francisco—City let contract improving portion Railroad Ave. to G. M. McGINN & CO., Phelan Bldg., about $44,547.

Calif., San Francisco—City let contract sidewalks on Polk St. to P. McDONALD, 145 Beaver St., at 13.75c. per sq.ft.

Calif., San Francisco—City let contract improving Corbett Ave. to FLINN & TREACY, 1st National Bank Bldg., $4,857.

Calif., San Francisco—City let contract sidewalks on Grove St. to A. O. FIELD, 1465 20th Ave., 13.75c. per sq.ft.

Calif., San Leandro—City let contract paving East 14th St. to JOHNSON-SHEA CO., Central Bank Bldg., Oakland, about $26,325. Noted Oct. 26.

Calif., Ventura—Ventura County received low bid paving bridges from C. Scherer, Stimson Bldg., Los Angeles, $4,481.

Ont., Sarnia—Council let contract sidewalks to GUTTERIDGE & GRACE, 109 College St.

Ont., Toronto—City let contract bitulithic pavement on Osler Ave. to WARREN BITUMINOUS PAVING CO. OF TORONTO, LTD., McKinnon Bldg., $11,089.

INDUSTRIAL WORKS

Proposed Work

Mass., Everett—General Electric Co. plans 115x200-ft. pattern shop.

Mass., Gardner—Simplex Time Recorder Co., Sanborn St., made plans for 3-story, 60x100-ft. concrete factory. About $30,000. R. E. Coolidge, Southbridge, Arch. Noted Oct. 19.

Mass., Lynn—General Electric Co. granted permit for 3 additions. Noted June 22.

Mass., Salem—A. J. Mulholland Co., Peabody, plans 5-story, 50x200-ft. leather factory.

Mass., Springfield—Cudahy Packing Co. granted permit for packing house at 209-11 South 3rd St. About $20,000.

Mass., Worcester—Washburn & Garfield Manufacturing Co., Commercial and North Foster St., made plans for store and light manufacturing building. About $60,000.

N. Y., Binghamton—W. E. Ogden & Co., Court and Jay St., made plans for 2-story factory. About $35,000. Noted May 4.

N. Y., New York—(Brooklyn)—(Official)—E. M. Pilzer, 438 Stone Ave., receiving bids for 1-story, 100x150-ft. brick garage, Watkins St. and Lott Ave. About $20,000. M. Whinston, 459 Stone Ave., Arch. Noted Nov. 9.

N. Y., New York—(Brooklyn)—(Official)—Gluck Bros., Maujer and Lorimer St., receiving bids for 3-story, 50.4x84-ft. brick factory. About $15,000. Freid & Holzman, Maujer and Lorimer St., Arch.

N. Y., New York—(Manhattan)—(Official)—W. D. Staright, 1130 5th Ave., receiving bids for 3-story, 25x100.8-ft. brick garage at 162 East 92nd St About $30,000. Delano & Aldrich, 4 East 39th St., Arch.

N. J., Passaic—Botany Worsted Mills plans addition, about $250,000.

Penn., Beaver Falls—Pittsburgh Radium Co. purchased plant Great Western File Works, 12th St., and will rebuild and equip it for extraction vanadium, uranium and radium from carnotite ores.

Penn., Centerville—Supplee-Alderney Co., of Philadelphia, plans milk plant.

Penn., Easton—Imperial Castings Co. making plans for 1-story, 80x110-ft. brick foundry.

Penn., Philadelphia—Pottash Bros., 504 North American St., plans 2-story, 40x100-ft. factory, 600-12 North American St.

Penn., Philadelphia—Morris-Wheeler Realty Co. plans plant at 30th and Locust St. for Morris-Wheeler & Co., 16th and Market St.

Penn., Phillipsburg—Phillipsburg Clay Products Co. making plans for plant.

Penn., Pottstown—Vaughn Knitting Co. plans addition. About $10,000.

Penn., York—Atlantic Refining Co. plans warehouse.

Del., Dover—Security Storage Co. plans 5-story, 45x134-ft. warehouse. About $25,000.

Md., Baltimore—Maryland Chemical Co. purchased site at Columbia and Baltimore & Ohio Railroad Co. tracks for plant.

D. C., Washington—W. B. Austin granted permit for 5-story warehouse, 11th and King St. About $26,000.

N. C., Asheville—H. Rees Sons granted permit to rebuild tannery destroyed by fire About $45,000. Noted Oct. 19.

N. C., Wilmington—Carolina Packing Co., recently organized with $100,000 capital stock, plans plant.

Ga., Dublin—Chamber of Commerce plans warehouse. About $50,000.

Ga., Tifton—W. W. Banks, Vice-Pres. Bank of Tifton, and associates, plans packing plant. About $100,000.

Fla., Jacksonville—Florida Cotton Seed Oil Mills plans to rebuild plant destroyed by fire with loss of $80,000.

Ala., Mobile—H. C. Nurman, Memphis, plans shipbuilding plant, about $75,000.

La., New Orleans—Stern Foundry and Machinery Co., 1630 Annunciation St., plans additions to plant. About $100,000.

La., New Orleans—Dixie Ice Manufacturing Co. plans to enlarge plant.

Tenn., Erwin—A. P. Villa & Bros., 95 Madison Ave., New York, plan silk mill, about $40,000.

Tenn., Johnson City—Johnson City Hosiery Mills, organized with $50,000 capital, plans plant.

Ohio, Canton—Canton Auto Parts Manufacturing Co., recently incorporated with $300,000 capital stock, plans 50x200-ft. factory. S. C. Kurtz, Vice-Pres., McCaskey Register Co., of Alliance, interested.

Ohio, Cincinnati—P. T Baker & Son plan 1-story, 75x250-ft. box manufacturing plant, Liberty St. and McLean Ave.

Ohio, Cincinnati—Nerpel Creamery, 222 West McMillan St., made plans for 1-story addition. A. Rieg. Arch.

Ohio, Cincinnati—Norwood Sash and Door Manufacturing Co., Ross and Section Ave., Norwood, plans 36x213-ft. warehouse. O. H. Bardon, 1222 Beech Ave., Arch.

Ohio, Cleveland—Barkwill-Farr Co. plans plant, Bradley Rd.

Ohio, Cleveland—Colburn Machine Tool Co., Franklin, Penn., plans plant at Cleveland. H. W. Breckenridge, Treas.

Ohio, Cleveland—Firestone Tire and Rubber Co., Akron, plans branch plant on Prospect Ave. About $100,000.

Ohio, Cleveland—Atlas Bolt and Screw Co. plans to spend about $350,000 for improvements.

Ohio, Cleveland—Cleveland Boulders Supply Co., Leader-News Bldg., made plans for warehouse, Denison Ave. About $40,000. Lehmann & Schmitt, 303 Electric Bldg., Arch. Noted July 20.

Ohio, Cleveland—Forbes Chocolate Co., recently organized with $75,000 capital stock, plans factory. C. I. Lee, Bank of Commerce, interested.

Ohio, Cleveland—New York Central R.R., Lines West of Buffalo, granted permit for brick shop on East 152d St. About $27,500. G. C. Cleveland, St. Clair Ave. and West 3d St., Ch. Engr.

Ohio, Columbus—Ohio Wax Paper Co plans plant on Parsons Ave., East Columbus.

Ohio, Dayton—Jones Heel Manufacturing Co. plans new factory.

Ohio, Dayton—Durfon Co. purchased 12 acres between Erie and Cleveland, Cincinnati, Chicago & St. Louis Ry. and plans factory. P. D. Schenck, Local Mgr.

Ohio, Dover—Dover Foundry Co. plans plant on West 3d St.

Ohio, Dover—Lewis Manufacturing Co., 155 West Washington St., Chicago, plans plant opposite Pennsylvania Station.

Ohio, Youngstown—Youngstown Sheet and Tube Co. plans to spend about $2,000,000 or $4,000,000 for additions to plant.

Ohio, Youngstown—Republic Rubber Co. granted permit for warehouse on Albert St. About $10,000. Noted Sept. 28.

Ind., Indianapolis—National Motor and Vehicle Corporation, recently incorporated with $5,000,000 capital stock, has taken over factory of National Automobile Co., 426 North Capitol Ave., and will build additions.

Ind., Kokomo—Hoosier Iron Works Co., recently organized with $200,000 capital stock, plans foundry on George Kingston Farm, east of tracks of Pennsylvania R.R. on North St. J. W. Johnson and C. T. Byrne, interested.

Ind., Monticello—Thread Mills Co. plans addition. About $40,000.

Mich., Detroit—Arctic Ice Cream Co., 507 Grand River Ave., granted permit for 2-story garage on Gibson St., about $21,000.

Mich., Detroit—J. A. Crowley Co., 1222 Ford Bldg., granted permit for 1-story factory on Mackie St. About $18,000.

Mich., Holland—Western Tool Works plans addition.

Mich., Howell—Howell Electric Motors Co. plans addition.

Mich., Manistee—Filer Fiber Co., recently organized with $300,000 capital stock, plans plant. J. W. Pettibone, Muskegon, Supt. Constr.

Ill., Alton—Laclede Steel Co. plans to enlarge plant.

Ill., Chicago—Centennial Laundry Co., 1411-13 West 12th St., granted permit for 3-story brick plant. About $12,000.

Ill., Chicago—Cohan Bros & Traub plan warehouse at 1144-46 West 15th St. About $40,000 or $50,000.

Ill., Chicago—J. P. Seeburg Piano Co. making plans for 4-story piano factory and 1-story power house, Belmont and Kilborun Ave. About $85,000 or $90,000. R. G. Pierce, Arch.

Ill., Chicago—Vortex Co., 420 Orleans St., purchased site at Western and Austin Ave. and will build 4-story factory.

Ill., Tuscola—Tuscola Creamery Co. plans 2-story brick building, South Central Ave. and South Washington St.

Ill., Waukegan—Chicago Recording Scale Co., Spring and Madison St., plans addition to plant.

Wis., De Forest—Sun Prairie Canning Co. plans factory. About $20,000.

Wis., Delavan—Bradley Knitting Mills, 905 Clinton St., making preliminary plans for 1-story, 48x150-ft. addition. Federal Engineering Co., 218 Stephenson Bldg., Milwaukee, Engr. Noted Aug. 10.

Wis., Eau Claire—Roswell-Hobbs Realty Co., South Farwell St., receives bids about Jan. 1 for 5-story, 40x120-ft. warehouse and office building.

Wis., Green Bay—Green Bay Cheese Co. plans 5-story, 50x100-ft. storehouse, about $60,000.

Wis., Madison—C. F. Burgess Laboratories made plans for 2-story, 50x100-ft. with wing 40x80-ft building at 1011-13-15-17-19 East Washington Ave. H. Alford, Arch.

Wis., Milwaukee—Wrought Washer Manufacturing Co. plans warehouse, 54-56 South Bay St. About $50,000.

Wis., Park Falls—Flambeau Paper Co. making plans for plant. About $100,000 to $125,000. T. W. Orbison, Consult. Engr.

Wis., Racine—Racine Auto Tire Co. plans factory on North High St. About $100,000. L. J. Elliott, Vice-Pres.

Wis., Sheboygan—Black Cat Textile Co. plans 3-story, 40x160-ft. factory.

Wis., Stevens Point—J. J. Normington purchased site at Clark and South 3d St., for 2-story steam laundry. About $10,000.

Iowa, Cedar Rapids—Russell Motor Car Co. plans, 1-story, 70x140-ft., brick, about $25,000.

Iowa, Keokuk—Pechstein Iron Works will be reorganized with $25,000 capital stock and will build new plant.

Iowa, Sioux City—Campbell Bakery Co. plans plant in Sioux City. About $150,000. W. Campbell, Pres. and Gen. Mgr.

Iowa, Sioux City—Armour & Co. soon receives bids for 7-story plant, brick, steel and concrete. About $75,000. H. C. Carlson, Gen. Mgr. Noted Aug. 24.

Minn., Duluth—Diamond Calk Horseshoe Co., 4630 Grand Ave., plans plant. About $55,000 O. Swanstrom, Pres.

Minn., Duluth—Kelley-How-Thomson Co., South 5th, Ave., plans addition to plant. About $70,000. G. W. Wells, Secy. and Treas.

Minn., Mankato—Roebke Bakery, North Front St., making plans, 2-story, 60x156-ft. About $30,000. H. C. Gerlach, Menkato, Arch.

Minn., Minneapolis—Minneapolis Artificial Ice Co., 402-10 North Lyndale St., made plans for 2 icehouses. O. K. Westphal, 615 Northwestern Bldg., Arch.

Minn., Minneapolis—Minneapolis General Electric Co., 15 South 5th St., making plans addition to plant on 5th St. Bertrand & Chamberlin, Northwestern General Bank Bldg., Arch. Noted Mar. 16.

Kan., Atchison—Seaton Foundry Co. making plans, 1-story, 100x275-ft. foundry.

Kan., Lawrence—W. W. Pendleton making plans for factory. About $40,000. E. Skofstad, Arch.

Neb., McCook—McCook Electric Co. plans ice plant

Neb., Ralston—Crown Tire and Rubber Co., recently incorporated with $250,000 capital stock, plans plant to consist of 6 buildings. H. A. Reichenbach, Omaha, interested.

N. D., Dickinson—Dickinson Ice and Transfer Co. plans plant.

Mont., Billings—Northwestern Auto Supply Co. plans 3-story warehouse. E. C. Guthard, Mgr.

Mont., Butte—Montana Dairy Co., South Montana St., plans to spend about $20,000 for additions.

Mo., Joplin—City plans ice plant. About $30,000. J. F. Lee, Comr. Pub. Utilities.

Mo., Kansas City—Nourse Oil Co. plans factory. About $100,000. J. Nourse, 1315 West 8th St., Mgr.

Mo., Moberly—Moberly Artificial Ice Co. making plans for ice and storage plant. About $75,000. Tait-Nordemeyer Engineering Co., 722 Chestnut St., St. Louis, Engr. Noted Aug. 17.

Mo., St. Louis—Bethlehem Steel Co., South Bethlehem, Penn., plans plant in St. Louis. C. M. Schwab, Pres.

Tex., El Paso—Empire Bottling Works making plans for 3-story, concrete factory. About $40,000. O. H. Thorman, Arch. Noted Nov. 9.

Tex., Gainesville—Cheaney Bros. plan brick garage. About $25,000.

N. M., Las Cruces—Holly Sugar Co., 506 Boston Bldg., Denver, plans sugar factory. About $1,000,000.

Idaho, Twin Falls—Watt Bros. plan laundry, 4th Ave. and 3rd St.

Utah, Salt Lake City—International Harvester Co. plans distributing plant. About $75,000 or $100,000.

Wash., Kalama—Standard Oil Co. plans warehouse.

Industrial Works (Continued)

Wash., Seattle—C. & F. Building Co granted permit for 91x125-ft. bakery at 800 13th Ave. About $20,000.

Ore., Medford—Oregon-Utah Sugar Co. plans refinery. About $500,000.

Ore., Portland—W. Cornfoot, of Albina Engine and Machine Works, plans shipbuilding plant on water front north Albina Ave.

Ore., Portland—Gerlinger Motor Car Co., Tacoma, plans plant at Portland. About $22,000.

Ore., Salem—Log Cabin Baking Co soon receives bids for brick bakery. About $25,000. F. Legg, Arch.

Ore., Willbridge—(Portland post office)—Pacific Coast Steel Co. plans factory at Willbridge.

Calif., Los Angeles—R. W. Pridham Co., box manufacturer, making plans for factory on North Alameda St. R. D. King, 519 Van Nuys Bldg., Arch.

Calif., San Francisco—American Ever Ready Co., 8th and Brannan St., making plans for 2-story, rein.-con. factory, about $350,000. M. C. Couchot, 110 Sutter St., Arch. Noted Aug. 3.

Calif., San Francisco—Hill Bros. making plans for 4-story, 137x137-ft. factory, Howard and Fremont St. About $100,000. F. Whitten, Mgr.

Que., St. Hyacinthe—J. E. Arpin plans to rebuild mattress factory destroyed by fire with loss of $22,000.

Ont., Ft. William—M. Sellers & Son, 408 Grain Exchange, plans elevator. About $130,000.

Ont., Niagara Falls—Canadian Aloxite Co. plans brick and rein.-con. addition. About $35,000.

Ont., Niagara Falls—Perfection Tire and Motor Co., 713 Marquette Bldg., Chicago, made plans for factory at Niagara Falls. About $90,000. Noted Oct 12.

Man., Winnipeg—Manitoba Power, Pulp and Paper Co., Ltd., plans mill. About $2,000,000. D. B. McDonald, 530 Greenwood Pl., Gen. Mgr.

Bids In and Contracts Awarded

Maine, Auburn—T. A. Huston Co., North Main St., let contract 3-story addition to biscuit factory to J. A. GREENLEAF & SONS, Washington Ave. Noted Oct. 12.

Mass., Millbury—Windle Wool Scouring Co let contract 2-story factory and 1-story power station near Boston & Albany Division tracks to E. D. WARD. About $70,000. Noted July 13.

Mass., Palmer—Wright Wire Co. let contract 3-story addition to E. D. WARD, Worcester.

Conn., Bridgeport—C. M. Cole, State St., let contract 8-story warehouse to S. AUSTIN & SON, Bridgeport. Noted Aug. 24.

Conn., Hartford—Hall-Thompson Co. let contract factory to P. SCONE, Hartford. About $20,000.

Conn., Middletown—New England Enameling Co. let contract factory to J. ANNIMO.

N. Y., Buffalo—Taylor & Grate Co. let contract industrial buildings to TURNER CONSTRUCTION CO., 11 Broadway, New York.

N. Y., Poughkeepsie—Moline Plow Co. let contract addition to plant to FLINT BUILDING AND CONSTRUCTION CO., Palmer, Mass. About $20,000.

N. Y., Rochester—American Can Co., Powers Bldg., let contract factory to TURNER CONSTRUCTION CO., Prudential Bldg., Buffalo.

N. Y., Rochester—E. E. Sackett, 75 Exchange St., let contract garage at 139 Scio St., to CURRAN & SWARTOUT, about $35,000.

N. J., Millville—(Official)—Millville Manufacturing Co. let contract 237.6x340.6-ft. factory to ABERTHAW CONSTRUCTION CO, Boston.

Penn., Chester—G. H. Bonner Co. let contract addition to plant to BARCLAY, WHITE & CO., 1530 Chestnut St., Philadelphia.

Penn., Millvale—Independent Brewing Co. let contract addition to BOLLINGER BROS., Fulton Bldg., Pittsburgh. About $250,000. Noted Aug. 26.

Penn., Philadelphia—Belmont Packing Co. let contract 2-story factory at Butler and Janney St. to FREUND-SIENDENBACH CO., Bulletin Bldg., about $10,000. Noted May 4.

Penn., Pittsburgh—A. DeRoy Motor Car Co. let contract 4-story garage on Forbes St. to D. T. RIFFLE, Keenan Bldg. About $85,000. Noted Oct. 5.

Penn., Sharon—American Steel Foundries Co., Franklin, let contract addition to W. N. KRATZER & CO., 3212 Smallman St., Pittsburgh. Noted Sept. 7.

Penn., Sharon—Petroleum Iron Works Co. let contract addition to FT. PITT CO., Pittsburgh. Noted Aug. 10.

Md., Baltimore—Columbia Paper Bag Co., 921 East Fort Ave., let contract 2-story addition to CONSOLIDATED ENGINEERING CO., 243 Calvert Bldg., Baltimore.

Md., Baltimore—Maryland Tube Co. let contract 1-story, 70x300-ft. factory, Hanover St. and Western Maryland Ry. to PRICE CONCRETE CONSTRUCTION CO., 225 St. Paul St., Baltimore.

Md., Highlandtown—Crown Cork and Seal Co., 1601-37 Guilford Ave., Baltimore, let contract machine shop to LONGACRE CONSTRUCTION CO., Widener Bldg., Philadelphia, about $285,000. Noted Nov. 9

Md., Sparrows Point—Bethlehem Steel Co, South Bethlehem, Penn., let contract blacksmith shop to SINGER-PENTZ CO., about $62,000. Noted Mar. 2.

Ohio, Cleveland—Armour & Co. let contract ice plant and warehouse on Eagle St. to BLOME-FINCH CO., Chicago.

Ohio, Cleveland—Cleveland Co-operative Stove Co., 2323 East 67th St., let contract factory to NATIONAL CONCRETE FIREPROOFING CO., 1315 Citizens Bldg., about $200,000. Noted Sept. 28.

Ohio, Cleveland—Virden Manufacturing Co., Ashland and Longfellow St., let contract 1-story, 75x130-ft. addition to C. N. GRIFFEN CONSTRUCTION CO., 3111 Carnegie Ave.

Ohio, East Hamilton—(Hamilton post office)—Simplex Machine Tool Co. let contract addition to plant to CULLEN & VAUGHN, about $7,500.

Ohio, Niles—Niles Tool Works let contract brass foundry on Mill St. to HAMILTON CONSTRUCTION CO., about $30,000.

Ohio, Springfield—S. E. Greenwalt let contract factory, Main and Center St., to CONCRETE STEEL CONSTRUCTION CO., about $150,000.

Ohio, Warren—Trumbull Steel Co. let contracts additions to RITER-CONLEY CO and UNITED ENGINEERING AND FOUNDRY CO., Pittsburgh. About $3,750,000. Noted Sept. 28.

Ind., Indianapolis—Stutz Motor Car Co. of America let contract plant at Meridian and Pratt St. to HURD & DINSMORE. Noted July 13.

Mich., Detroit—Disco Electric Starter Corp. let contract 2-story, 78x185-ft. factory to H. A. JONES CONSTRUCTION CO.

Mich., Niles—Original Cabinet Co., Evanston, Ill., let contract factory at Niles to M. D. BAKER & SON and J. W. SNYDER.

Mich., St. Joseph—Auto Specialties Manufacturing Co, Joliet, Ill., let contract 2-story, 80x400-ft. factory on Edgewater Field to C. KINGSLEY, St. Joseph, about $25,000.

Mich., St. Joseph—Baker-Vawter Co. let contract 3 additions to M. W. STOCK, St. Joseph, about $55,000.

Ill., Chicago—Linden Laundry Co., Laramie Ave., N., let contract 2-story laundry to C. ANDERSON & CO., about $55,000.

Ill., Chicago—Hygienic Ice Co, 6515 South State St., let contract 1-story storage house to CHANEY-ARCHIBALD CO., 189 West Madison St., about $50,000.

Ill., Chicago—Cross, Roy & Saunders, 20 West 39th St., let contract 6-story storage house at 2035-43 West 39th St., to E. W. SPROUL & CO., 1120 West 35th St., about $200,000.

Ill., Chicago—Fitzpatrick Bros., 32nd St. and Benson Ave., let contract 4-story brick warehouse to STRESENREUTER BROS., 3020 South Halstead St. About $15,000.

Ill., Chicago—R. Glendinning, 49th St. and Oakley Ave., let contract 1-story factory to McKEOWN BROS., 4817 Cottage Grove Ave., about $25,000. Noted Nov. 25.

Ill., Kewanee—J. Deere Plow Co. let contract plant to C. E. HEAPS, Moline, about $125,000.

Ill., Metropolis—Wilson Stove Co. let contract factory to J. COLE and SHERRILL-RUSSELL LUMBER CO, Paducah. About $50,000.

Wis., Madison—Overland-Wisconsin Co. let contract 4-story garage and storage building to WEBER & GRAY. About $40,000. Noted Aug. 10.

Iowa, Cedar Rapids—T. M. Sinclair Co., Ltd., let contract 4-story warehouse to LOOMIS BROS., Kimball Bldg., about $65,000.

Iowa, Cedar Rapids—D. Starch Works let contract warehouse to LEONARD CONSTRUCTION CO., Chicago, about $100,000.

Neb., Omaha—McCague Investment Co., 15th and Dodge St., let contract 1-story, 80x120-ft. rein.-con. garage, 25th Ave. and Leavenworth St., to A. BECK, Keeline Bldg. About $20,000.

N. D., Dickinson—J. P. Berringer let contract cold-storage and ice plant to G. HEATON LUMBER CO., Dickinson.

Mont., Roundup—M. Blank let contract garage to KIEBURTZ & SMITH, Butte, about $20,000.

Mo., Carthage—Carthage Foundry and Machine Wks. let contract factory, Main and Limestone St., to A. J. LOVE, 1507 Virginia St, Joplin. About $15,000. Noted May 11.

Wash., Cheshaw—Cheshaw Grain Co. let contract elevator to SEATTLE ENGINEERING AND ELEVATOR CONSTRUCTION CO., White Bldg., Seattle, about $10,000.

Wash., North Yakima—Oregon-Utah Sugar Co. let contract plant to J. DYER & CO., about $500,000.

Que., Verdun—British Munition Co. let contract addition to ATLAS CONSTRUCTION CO., 37 Belmont St., Montreal.

Ont., Toronto—Toronto Laundry Machine Co., Sorauren Ave. and Dundas St, let contract addition to BROWN & COOPER, 207 Carlton St.

FEDERAL GOVERNMENT WORK

Proposed Work

R. I., Newport—Buildings—Bureau Yards and Docks, Navy Dept., Washington, D. C., making plans for 3 contagious wards at Naval Hospital. About $18,000.

N. Y., New York—Dredging—U. S. Engr. Office Army Bldg., New York, receiving bids Nov. 28, in Newtown Creek.

N. Y., New York—Paving—Bureau Yards and Docks, Navy Dept., receiving bids Nov. 20, wood block paving at Navy Yard, New York. Noted Oct. 26.

N. J., Bayonne—Post Office—Superv. Arch., Treasury Dept, Washington, D. C., rejected bids New bids. Noted Oct. 26.

Penn., DuBois—Post Office—Superv. Arch., Treasury Dept., Washington, D. C., rejected bids New bids. Noted Oct. 26.

Md., Indian Head—Fire System—Bureau Yards and Docks, Navy Dept., Washington, D. C., making plans, at Proving Ground. About $38,000.

D. C., Washington—Coast Guard Station Treasury Dept., U. S. Coast Guard, Washington, receiving bids Dec. 4, on Siuslaw River, Ore.

D. C., Washington—Sewers—Dist. Comrs., Washington, receiving bids Nov. 21.

W. Va., Wheeling—Lockkeepers' House—U. S Engr. Office, Wheeling, receiving bids Nov. 28, 2-story, at Dam No. 21, Ohio River.

N. C., Burlington—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, rejected bids. New bids. Noted Nov. 9.

S. C., Charleston—Building, Etc.—Bureau Yards and Docks, Navy Dept, Washington, D. C., making plans for radio building, masts and tower

Fla., Pensacola—Water Filters—Bureau Yards and Docks, Navy Dept., Washington, D. C., making plans, at Naval Aëronautic Station.

La., New Orleans—Rock—Lighthouse Inspector, New Orleans, receiving bids Dec. 11 for furnishing and placing 3,000 tons around Sand Island Station, Ala. (See adv.)

Ill., Rock Island—Ice Plant—Commanding Officer, Rock Island Arsenal, receiving bids Nov. 21, 10-ton.

Kan., Junction City—Bridge—U. S. Government soon receives bids for bridges across Republican River.

Wash., Puget Sound—Transmission Line—Bureau Yards and Docks, Navy Dept., Washington, D. C., making plans.

Panama—Miscellaneous and Metal Supplies—Maj. E I. Brown, Gen. Pur. Officer, Panama Canal, Washington, receiving bids Nov. 24.

Panama—Colliers—Earl J. Brown, Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Dec. 1, two 12,000 tons capacity.

Cuba, Guantanamo—Fuel Oil Plant—Bureau Yards and Docks, Navy Dept., Washington, D. C., making plans, Naval Station, Cuba.

Bids In and Contracts Awarded

Mass., Buzzards Bay—Removal of Wreck—U. S. Engr. Office, Newport, R. I., let contract, removal of wreck of "Yankee" in Buzzards Bay to MERRITT & CHAPMAN DERRICK AND WRECKING CO., 17 Battery Pl., New York, $11,890. Noted Oct 12.

Mass., Chelsea—Seawall—Bureau Yards and Docks, Navy Dept., Washington, D. C., received bids, Naval Hospital, Chelsea, (a) net price rebuilding old seawall and building new seawall with drains, etc, (b) net price rebuilding old seawall and building new seawall southeast of pier, etc., per drawing A, (c) per drawing B, from H. J. Stabile and P. Caputo, 176 North St., Boston, (a) $22,500, (b) $13,785, (c) $18,500; J. F. Coleman, 1 Marginal St, Chelsea, (a) $22,000, (b) $13,500, (c) $18,500; Cape Ann Granite Corporation, 195 Cabot St., Beverly, (a) $17,425, (b) $10,930, (c) $15,300. Noted Oct. 19.

R. I., Melville—Torpedo Storehouse—Bureau of Yards and Docks received bids, Naval Coal Station, from Milliken Bros., New York, $13,665; Belmont Iron Works, Philadelphia, $16,750; Penn Bridge Co., Washington, $17,500. Noted Oct. 26.

R. I., Newport—Seawall—Bureau Yards and Docks, Navy Dept., received bids, Naval Torpedo Station, from Bay State Dredging and Contracting Co., Boston, Mass., $34,000; R. H Beattie, Fall River, $26,571. Noted Oct. 26.

R. I., Providence—Dredging—U. S. Engr. Office, Newport, let contract, Providence Harbor, to J. S. PACKARD DREDGING CO., Providence, $285,592. Noted Nov. 2.

Conn., New London—Dredging—U. S. Engr. Office, New London, rejected bids, Pawtucket River, R. I. and Conn. Noted Oct. 12

Conn., New London—Dredging—U. S. Engr. Office, New London, let contract, New Haven, Norwalk and Stamford Harbors, to BOSTON DREDGING CO., New Haven, $22,196. Noted Oct. 26.

N. Y., New York—Dredging—Bureau Yards and Docks, Navy Dept., Washington, D. C, received bids, in connection with Navy Yard, from P. S. Ross, 227 Washington St., Jersey City, N. J., 39c. cu.yd; E. Breymann, 17 Battery Pl., New York, 35c. cu.yd; Coastwise Dredging Co., National Bank of Commerce Bldg., Norfolk, Va., 36.5c. cu.yd. Noted Nov. 2.

N. J., Woodbury—Post Office—Superv. Arch., Treasury Dept., Washington, received low bids from C. McCaul Co., Philadelphia, Penn, $57,670; Westchester Engineering Co., White Plains, N. Y., $59,900; E. F. Fonder, Philadelphia, Penn, $58,700. Noted Sept. 28.

D. C., Washington—Grading Streets—Dist. Comrs. let contract, Rhode Island Ave., N. E., to G. HYMAN, 32c. cu yd.; Todd Pl., N. E., HOOV-

Federal Government Work (Continued)

ER & HOOVER, 43.5c. cu.yd.; Franklin St., N. E., HARPER & VOGT CO., 17.5c. cu yd.; Massachusetts Ave., N. W., E. G. GUMMEL, 23c. cu.yd. Noted Nov. 2.

D. C., Washington—Bridges—Dist. Comrs. received low bids (a) Design A, (b) Design B, 7-span on Banning Rd. over Philadelphia, Baltimore & Washington and Baltimore & Ohio Railroad Co., from A. L. Guidone & Son, 52 Vanderbilt Ave., New York, (a) $59,900, (b) $56,500; Snare & Triest Co., Woolworth Bldg., New York, (a) $64,600, (b) $59,300; Robert W. Smith Corporation, Washington, D. C., (a) $96,905, (b) $87,545. Noted Oct. 12.

D. C., Washington—Radio Masts—Bureau Yards and Docks, Navy Dept., Washington, D. C., received only bid, State War and Navy Building, J. Simmons Co., 104 Center St., New York, $11,780. Noted Nov. 2.

Va., Norfolk—Dry Dock—Bureau Yards and Docks, Navy Dept., let contract, at Navy Yard, Norfolk, to G. LEARY CONSTRUCTION CO., 17 State St., New York, $2,440,000. Noted Oct. 26.

Ala., Birmingham—Post Office—Treasury Dept. received bids for post office (prices quoted on different kinds of marble) from W. Dall Co., Cleveland, $761,000, $792,000, $858,000, $822,000; C. McCaul Co., Philadelphia, $783,100, $839,000, $763,000, $731,100, $777,100, $669,000; M. Yeager & Co., Minerva, $784,766, $794,766, $774,766; J. H. Parker & Co., New York, $813,000, $883,000, $713,000. Noted Sept. 28.

Miss., Vicksburg—Levee—U. S. Engr. Office let contract, 680,000-cu.yd., to ROACH & STARSELL, Memphis, Tenn., $155,237.

La., New Orleans—Levee Work—U. S. Engr. Office, Queen and Crescent Bldg., received low bids 498,000 cu.yd. earthwork Lafourche Levee Dist., as follows: (1) Willswood, (2) Upper Avondale, (3) Lower Avondale; (a) first method, (b) second method: D. B. Gore & Co., Inc., Metropolitan Bank Bldg., New Orleans, (1a) 12.49c., (2a) 12.49c., (3a) 12.49c.; Lower Coast Construction Co., 122 Chartress St., New Orleans, (1a) 11.97c., (b) 18.90c., (2a) 24c., (b) 40c.; Graser Contracting Co., 902 Hennen Bldg., New Orleans, (1a) 12.34c., (b) 29c. Noted Oct. 26.

Tenn., Nashville—Locks—U. S. Engr. Office, Nashville, received bids Sept. 28 for concrete locks (a) E and (b) F, Cumberland River, from G. C. Hodgson, 1168 Reibold Bldg., Dayton, Ohio, (a) $335,581, (b) $328,296; Mason & Hanger Co., Lexington, Ky., (a) $331,420, (b) $346,839. Noted Aug. 31.

Ky., Ashland—Building—U. S. Engr. Office, Cincinnati, Ohio, receiving bids 2 lock tenders' dwellings at Dam No. 29, Ohio River, near Ashland.

Ky., Louisville—Gate Operating Machinery—U. S. Engr. Office, Louisville, let contract, Lock No. 41, Ohio River, to C. HEGEWALD CO., New Albany, Ind., $10,320.

Ky., Louisville—Iron Castings—U. S. Engr. Office, let contract, Lock No. 41, Ohio River, to J. B. MILHOLLAND CO., 714 5th Ave., Pittsburgh, $12,384. Noted Oct. 19.

Ill., Chicago—Breakwater—U. S. Engr. Office, 508 Federal Bldg., Chicago, let contract to E. GILLEN DOCK, DREDGE AND CONSTRUCTION CO., Racine, Wis., $447,700. Noted Nov. 2.

Wash., Seattle—Dredging—U. S. Engr. Office, Seattle, received bids, Lake Washington Ship Canal, from Erickson Construction Co., Seattle, $109,825; Standard American Dredging Co., Oakland, Calif., $110,112. Noted Oct. 5.

Calif., Tiburon—Dredging—Bureau of Yards and Docks, Washington, received bids from Pacific Coast Dredging and Reclamation Co., San Francisco, 12.9c. per cu.yd.; R. A. Perry, Oakland, 18c.; M. C. Harris, San Francisco, 19c. Noted Oct. 26.

CANALS, DITCHES AND IRRIGATION

Proposed Work

La., Donaldsonville—Drainage—New River Drainage Dist. of Ascension Parish election Nov. 28 to vote on $40,000 bonds. L. Picard, Pres.

Ind., Portland—Drain—Jay County receiving bids Nov. 18. J. E. Daugherty, Supt. Constr.

Ind., Winchester—Ditch—Randolph County receiving bids Nov. 18. A. B. Purdy, Winchester, Comr.-in-charge.

Minn., Duluth—Ditch—St. Louis County receiving bids Nov. 20 for County Ditch No. 7, about $22,722. T. F. McGilray, Duluth, Engr. Noted Mar. 2.

Minn., Henderson—Ditch—Sibley and McLeod Counties, Henderson, receiving bids Nov. 27 for purchase of $5,000 bonds for Judicial Ditch No. 5. F. Hoppenstedt, Henderson, Audr.

Minn., Morris—Ditch—Stevens and Swift Counties, Morris, receiving bids Nov. 22 for Judicial Ditch No. 2, about $26,570. C. R. Wollthan, Morris, County Audr.

Minn., Morris—Ditch—Stevens County receiving bids Nov. 22 for Judicial Ditch No. 3, about $11,590. C. R. Wollthan, Morris, Audr.

Minn., St. Paul—Ditch—Ramsey County receiving bids Nov. 24 for County Ditch No. 14, about $13,988. G. J. Reis, St. Paul, Audr.

Mo., Steffenville—Drainage—Steffenville Drainage Dist. plans to spend about $70,000 straightening South Fabius River.

Tex., Barstow—Irrigation—Ward County Irrigation Dist. No. 1 soon lets contract for irrigation canal and dam. About $50,000. J. J. Walker, Barstow, Pres. Noted Feb. 24.

Nev., Reno—Drainage—M. Hayes, Asst. State Engr., making plans for draining about 10,000 acres in Truckee Meadows.

Wash., Centralia—Irrigation—H. L. Eras interested in formation of irrigation district to serve 5,000 acres on Fords Prairie.

Wash., Sequin—Drainage—Happy Valley Irrigation Dist. voted $80,000 bonds for irrigating 14,000 acres. T. Watson, 410 Globe Blk., Engr. Noted Mar. 2.

Ore., Canyon City—Irrigation—Blue Mountain Ditch Co. plans to irrigate about 1,270 acres in Grant County.

Ore., Sams Valley—Irrigation—J. W. Dunlop, Medford, applied to State Engineer for permission to irrigate 16,000 acres in Sams Valley. About $200,000.

Calif., Dixon—Drainage—Hawley, Whitney & Leveland, Engr., submitted plan to State for irrigating about 55 acres southeast Dixon. Noted Jan. 6.

Calif., Siskiyou—Irrigation—Siskiyou County plans to irrigate about 10,000 acres. Address E. W. Pereira, Ft. Jones.

Calif., Willows—Irrigation—Jacinto and Princeton-Codora-Glenn Irrigation Dists. election Dec. 9 to vote on organization of districts. About $180,000 and $136,000 respectively. Address County Clk., Willows.

Bids In and Contracts Awarded

Mass., Boston—(South Boston)—Dredging—Comr. on Waterways and Pub. Lands, 40 Central St., let contract dredging about 4,500 cu.yd. to BAY STATE DREDGING AND CONTRACTING CO., 247 Atlantic Ave., about 47c. per cu.yd. Noted Nov. 2.

N. Y., New York—(Manhattan)—(Official)—Dredging—Bids received Sept. 15 dredging West 209th St. and Harlem River, Contract No. 1524, rejected. Noted Sept. 21.

Fla., Tallahassee—(Official)—Canal—Bd. Comrs. Everglades Drainage Dist. let contract drainage canal to JOHNSON & CO., West Palm Beach. Noted Sept. 28.

Ohio, Tiffin—Dredging—County let contract improving Rock Creek to J. JONES, Tiffin, about $28,274. Noted July 20.

Ind., Kendallville—Ditch—County let contract J. J. Eve Ditch, Cleveland fownship, to G. WOLF and BIPPUS DRAIN TILE CO., $4,900.

Ind., Plymouth—(Official)—Ditch—Marshall County rejected bids for Seraphine Schub Ditch. Noted Oct. 26

Ill., Eureka—Drainage—Rome View Drainage and Levee Dist., Woodford County, received low bid levee and drainage work from Caldwell Engineering Co., about $338,000.

Iowa, Algona—Ditch—Kossuth County let contract Ditch No. 139 to WELP CEMENT PRODUCTS CO., Bancroft.

Minn., Montevideo—Ditch—Chippewa County let contract Ditch No. 25 to E. THIEN, Clara City, about $4,950. Noted Nov. 2.

Minn., New Ulm—(Official)—Ditch—Brown County let contract Ditch No. 30 to F. AULDERHIDE, New Ulm, about $14,100. Noted Nov. 2.

Kan., Kansas City—(Official)—Drainage—Kaw Valley Drainage Dist. of Wyandotte County let contract about 42,230 cu.yd. embankment to A. A. LUCK CONSTRUCTION CO., 524 Rialto Bldg., 42c. per cu.yd. Noted Nov. 2.

Neb., Auburn—(Official)—Drainage—Nehama County, Drainage Dist. No. 3 let contract about 9 mi. channel to MUNN & REASE CONSTRUCTION CO., Kansas City, Mo., about $23,302. Noted Oct. 26.

Tex., Donna—(Official)—Drainage—Hildalgo County Drainage Dist. No. 1 let contract Sects. Nos. 1, 2 and 3 protection levee to CALHOUN & BROOKS, Pharr, about $74,000. Noted Oct. 26.

MISCELLANEOUS

Proposed Work

N. Y., Albany—Parks—State voted $10,000,000 bonds for increasing area of State Parks, namely Adirondack and Catskill Parks of Forest Preserve and Palisades Interstate Park, Proposition No. 1. Noted Nov. 2.

N. Y., New York—(Bronx)—(Official)—Tracks—Interborough Rapid Transit Co., 165 Broadway, Manhattan, receiving bids Nov. 22 for tracks on portion railway, 8th Ave. and 162d St. connection, Sect. No. 10-C. C. H. Pegram, Ch. Engr.

N. Y., New York—(Manhattan)—Pier—R. A. C. Smith, Comr. Docks, Pier "A," Battery Pl., North River, receiving bids Nov. 20 for extending Pier No. 20, foot Chambers St., Contract No. 1420.

N. Y., New York—(Manhattan)—Pier—R. A. C. Smith, Comr. Docks, Pier "A," Battery Pl., North River, receiving bids Nov. 20 for extending Pier No. 21, foot Duane St., Contract No. 1549.

N. Y., New York—(Manhattan)—Playground—Park Bd., Dept. Parks, Municipal Bldg., receiving bids Nov. 23 for improving playground bounded by Convent Ave., St. Nicholas Terrace, 136th and 138th St.

N. Y., New York—(Queens)—Park—Bd. of Estimate and Apportionment considering plans for ocean promenade between beach 126th St. and point west Beach 141st St., also for public park between promenade and Atlantic Ocean, Rockaway Beach. N. P. Lewis, Ch. Engr. Bd. J. A. Dayton, Comr. Pub. Wks. Boro. Queens.

N. J., Audubon—Park—Borough plans, about $2,000,000.

N. J., Longport—Seawall—Borough making revised plans. Case Construction Corporation, 1170 Broadway, New York, Engr. Noted Nov. 2.

N. J., Morristown—Park—Morristown Impvt. Association plans to convert Speedwell Lake tract of 32 acres into park.

N. J., Rutherford—Elimination Grade Crossings—Erie R.R. made plans, 4 grade crossings at Park Ave. About $40,000. R. S. Parsons, 50 Church St., New York, Ch. Engr. Noted Sept. 21.

Penn., Philadelphia—Parkway—City plans to improve parkway from entrance at Broad and Arch St. to Fairmount Park. Plans include colonnade, bandstand and fountain. About $100,000. G. S. Webster, Engr. Pub. Wks. C. Albright, City Engr.

Penn., Philadelphia—Piers—City making plans, Snyder St. G. S. Webster, Dir. Wharves, Docks and Ferries.

Penn., Philadelphia—River Improvements—State Legislature will be asked by shipping interests and city officials to remove Horseshoe Shoals in bend Delaware River near League Island. About $500,000. G. S. Webster, Dir. Wharves, Docks and Ferries.

Penn., Roaring Branch—Dike—County rejected bids, along Lycoming Creek. New bids. Address County Clk., Roaring Branch. Noted Nov. 2.

Md., Canton—(Baltimore post office)—Pier—Pennsylvania R.R. plans, concrete and timber. A. Shand, Broad St. Sta., Philadelphia, Ch. Engr.

Md., Sparrows Point—Engine House—Bethlehem Steel Corporation plans.

Ala., Birmingham—Elimination of Grade Crossing—See item under "Streets and Roads."

Ala., Decatur—Wharf—City plans on Tennessee River foot Bank St. W. A. McCalla, Decatur, Engr.

Miss., Natchez—Revetment—Natchez & Southern Ry. plans to spend about $10,000. C. B. Brownell, Natchez, Vice-Pres., Gen. Mgr. and Pur. Agt.

Ohio, Cleveland—(East Cleveland)—Park—City making plans 325x700-ft. park and 80x80-ft. swimming pool on Shaw Ave. W. Hirsch, 1306 Swetland Bldg., Arch. Noted July 6.

Ohio, Columbus—Elimination of Grade Crossing—City, Pennsylvania Lines West of Pittsburg, Cleveland, Cincinnati, Chicago & St. Louis Ry. and Hocking Valley Ry. plan, Dennison Ave. H. Maetzel, City Engr. T. Rodd, Pittsburg, Ch. Engr. Pennsylvania Lines West of Pittsburgh.

Ohio, Elyria—Elimination of Grade Crossings—Council passed ordinance to eliminate crossings of New York Central R.R., Lines West of Buffalo on Cedar, Mill, Tremont, Chestnut and North St. and Washington and West Ave. G. C. Cleveland, St. Clair Ave. and 3d St., Cleveland, Ch. Engr.

Ohio, Euclid—Park Site and Bathing Beach—Village defeated $200,000 bonds. Noted Sept. 7.

Ohio, Lima—Retaining Wall—Council passed ordinance for retaining wall over stone quarry East North St. J. I. Heffner, City Clk.

Ohio, Youngstown—Elimination of Grade Crossings—Erie R.R. made plans. R. S. Parsons, 50 Church St., New York, Ch. Engr. Noted Oct. 21.

Ohio, Zanesville—Revetment—City receiving bids Nov. 21, along Licking River, about 17,200 lb. steel reinforcing, 263 cu.yd. concrete and 282 cu.yd. excavation. C. R. Spencer, City Engr. Noted Nov. 2.

Mich., Boyne City—(Official)—Playgrounds—City defeated $6,000 bonds. Noted Nov. 2.

Ill., Cairo—Subway—Cleveland, Cincinnati, Chicago & St. Louis Ry. plans on Sycamore St. next spring. C. A. Paquette, Cincinnati, Ch. Engr.

Ill., Chicago—Track Elevation—Chicago & Western Indiana R.R. and Chicago, Rock Island & Pacific Ry. plan to elevate tracks. E. H. Lee, Polk and Dearborn St., Chicago, Vice-Pres. and Ch. Engr. Chicago & Western Indiana R.R.

Wis., Superior—Dock—Northern Pacific Ry. plans 600-ft. addition to ore dock. About $175,000. H. E. Stevens, St. Paul, Ch. Engr.

Mo., Hardin—Levee—J. M. Rhodes, Secy. Bd. Dir. Levee Dist. No. 4, Hardin Bank, receiving bids Nov. 18 for 5.5 mi. levee.

Mo., Joplin—Park—City plans to improve Schifferdecker and McClelland Parks, new park in St. Joes bottoms north Broadway Viaduct also at Castle Rock and Center Creek crossing North Main St. Rd. H. McIndoe, Mayor.

Wash., Seattle—Pier—Galbraith, Bacon & Co. plan to rebuild Pier No. 12 destroyed by fire.

Ore., Hood River—Wharf—City plans. Comn. of Pub. Docks of Portland will aid project. C. B. Hegardt, Ch. Engr. Comn., Portland.

Calif., San Rafael—Channel—City defeated $50,000 bonds for improving San Rafael Channel. Noted Sept. 7.

Bids In and Contracts Awarded

Mass., Beverly—Fire Station—City received low bid, Bridge St., from W. H. Cann, Rantoul St., about $5,475.

Miscellaneous (Continued)

Mass., Boston—Park Improvements—City received low bids development South Boston Strandway from New York State Dredging Corp., $803,180; Coleman Bros., $835,465; West Roxbury Trap Rock Co., $858,429. Noted Oct. 19.

Mass., Boston—Wall—City received bids, Suffolk County Jail, from W H. Pieble Co., Pemberton Sq., $7,242; M. S. Kelliher & Co., Quincy, $7,259; McNeill Construction Co., 201 Devonshire St., $7,400.

Mass., Revere—(Official)—Fire Station—City let contract to J. CYR & CO., Lawrence, about $13,886. Noted Nov. 2.

N. Y., New York—(Boroughs of Bronx and Queens)—Signal Towers—Pub. Ser. Comn. for First Dist., 120 Broadway, Manhattan, received low bids 13 signal towers on River Rd. Ave. and Jerome Ave. extension of Seventh Ave.-Lexington Ave. line, White Plains Rd. line and Queensboro Subway from H. C. Stowe Construction Co., 221 Greenpoint Ave., Brooklyn, $110,650; Snare & Triest Co., Woolworth Bldg., Manhattan, $113,442; *T. Dwyer, $113,444. These are unofficial totals. Noted Oct. 26.

Penn., Erie—Elimination Grade Crossing—City let contract excavating for eliminating grade crossing over Parade on 14th St. to L. V. METZ, about $12,984. Noted Sept. 21.

Penn., Philadelphia—Riding Pavilion—H. A. Laughlin let contract, Grefeldt and Chestnut Hill St., to E. J. KREITZBURG, Philadelphia, about $10,000.

Md., Sharpsburg—(Official)—Fence—New York Monuments Comn. let contract around New York State Reservation to C. KAPPES, Gettysburg, Penn., about $4,028. Noted Oct. 5.

Miss., Clarkesdale—Levee—Yazoo & Mississippi Delta Levee Dist. let contract 3,000,000 cu.yd. levee work to R. C. CHESHIRE, 324 Falls Bldg., Memphis, about $1,000,000. Noted Mar. 16.

La., New Orleans—Levee Work—Bd. State Engrs. let contract Henderson Levee, to R. T. CLARK; Concordia Parish levee to FOREST CONSTRUCTION CO. Noted Nov. 9.

Ohio, Cleveland—Comfort Stations—City let contract St. Clair Ave. and East 105th St. to MINNICK-GIBBONS CONSTRUCTION CO., 5309 Prospect Ave. Noted Oct. 19.

Ohio, Dayton—(Official)—Fire Station—City let contract excavation and concrete to G. B. WETZEL, brick work and stone, J. W. BAREN & SONS, both of Dayton. Noted Sept. 21.

Ohio, Dayton—Levee—Reichelderfer & Sons, Circleville, at $13,700, only bidder widening and strengthening levees on new dam Miami River.

Ohio, Zanesville—Market House—City received bids from W. C. Handshym $14,870; A. A. Vinsel, $15,061; Taylor & Lynn, $16,017. Noted Aug. 17.

Mich., Detroit—Comfort Station—City let contract Riverside Park, West Jefferson and Morrell St to CORRICK BROS., 415 Trussed Concrete Bldg.

Ill., Maywood—(Official)—Elimination of Grade Crossings—Chicago & Northwestern R.R. plans, Bellwood and Melrose Park, by force account. W. H. Finley, Jackson Blvd. and Franklin St., Ch. Engr. Noted Nov. 2.

Iowa, Waterloo—Elimination Grade Crossings—Chicago Great Western and Chicago, Rock Island & Pacific R.R. let contract to MOORE-SIEG CONSTRUCTION CO.

Mo., St. Louis—Dock—Bd. Pub. Ser. let contract North Market St. Municipal Dock to HEMAN CONSTRUCTION CO., $187,250. Noted Oct. 12.

Tex., Galveston—Bulkhead—City received bids along crest seawall improvement fill between 16th and 17th St. from Blodgett Construction Co., $1.24 per ft., H. J. Hetkes, $1.40 per ft., McCall-Moore Engineering Co., $1.54 per ft. Noted Nov. 9.

Tex., Orange—(Official)—Wharf and Bulkhead—City let contract to W. MOORE & SON, Texas City, about $40,000. Noted Nov. 9.

Wash., Seattle—Dry Dock—Seattle Construction and Dry Dock Co. let contract to J. McATEER, about $225,000. Noted July 20.

Calif., San Bernardino—(Official)—River Protection—County rejected bids, along Mohave River. Work to be done by force account. Noted Oct. 26.

N. B., West St. John—(Official)—Shed, Etc.—City let contract shed, etc., on Pier No. 1, Berth No. 16, to D. C. CLARK, West St. John.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Vt., Proctor—Office—Vermont Marble Co. making plans. R. C. Sturgis, 120 Boylston St., Boston, Mass., Arch.

Mass., Beverly—School—St. Ann's Church Society making plans, 3-story, 60x90-ft. C. E. Fournier, 20 Bennett St., Arch.

Mass., Bridgewater—Dormitory and Service Building—Bd. Education made plans, for State Normal School. G. Lowell, 12 West St., Boston, Arch.

Mass., Chicopee—High School—City making plans, 3-story. About $60,000. G. E. Haynes, 184 North St., Pittsfield, Arch.

Mass., Pittsfield—L. G. Lloyd making plans for 2-story, 120x150-ft. brick building at North and Bradford St. About $50,000. P. F. McLaughlin, 24 North St., Arch.

Mass., Springfield—School—City authorizes bond issue of $540,000.

Conn., Manchester—Theater—H. F. Sheridan plans, at Main and North School St.

Conn., New Haven—Passenger Station—New York, New Haven & Hartford Railroad Co. making plans. E. Gagel, New Haven, Ch. Engr.

N. Y., Auburn—New York Telephone Co. plans building. About $150,000.

N. Y., Elmira—Library—Library Association plans, at Lake and Church St. About $70,000.

N. Y., Endicott—Church—Methodist Society retained Jeweel & Hayes, Arch., 1108 Press Bldg., Binghamton, to make plans, 1-story. About $40,000. Noted Aug. 10.

N. Y., New York—(Bronx)—(Official)—Police Station—City receiving bids, 4-story, 538x718-ft. 142d St. and Brook Ave. About $75,000. Cross & Cross, 10 East 47th St., Manhattan, Arch.

N. Y., New York—(Bronx)—C. B. J. Snyder, Supt. Schools, Park Ave. and 59th St., Manhattan, receiving bids Nov. 20 for completing "Evander Childs High School," East 184th St. and Field Pl.

N. Y., New York—(Bronx)—(Official)—Synagogue—Sons of Israel, 178th St. near Mapes Ave. receiving bids, brick, limestone and terra cotta. About $41,000. B. H. & C. H. Whinston, 509 Willis Ave., Bronx, Arch.

N. Y., New York—(Manhattan)—(Official)—Theater—190th St. Holding Co., 35 Nassau St., receiving bids, 1-story, 120x215-ft., at 5th Ave. near 79th St. About $60,000. T. W. Lamb, 8th Ave. and 41st St., Manhattan, Arch.

N. Y., Rochester—Clubhouse—Sphinx Club making plans.

N. J., Burlington—Masonic Home—New Jersey Grand Lodge, F. & A. M. making plans, 4-story, 38x81x17x65-ft. About $75,000. L. Parsons, 1133 Broadway, New York, Arch.

N. J., Newark—Church—St. Casimir's Congregation making plans. About $100,000. J. S. Pigott, Union Bldg., Newark, Arch.

N. J., Newark—School—Bd. Education receiving bids Nov. 27 on Speedway Ave. R. D. Argue, Secy. Bd. Education.

N. J., Orange—Hospital—New Jersey Orthopedic Hospital plans. About $200,000.

N. J., Princeton—Passenger Station—Pennsylvania R.R. making plans. About $45,000. A. C. Shand, Philadelphia, Ch. Engr.

N. J., Trenton—Young Men's Hebrew Association plans improving building. W. W. Slack & Son, Trenton, Arch.

Penn., Allentown—Hospital—Sacred Heart Hospital obtained subscription of $183,000. H. E. Bohner, Chn. Executive Com.

Penn., Ambler—Ambler Trust Co. plans bank and office building.

Penn., Ashley—High School—School Bd. plans. About $135,000. T. Cole, Secy. School Bd.

Penn., Berwick—Church—Bower Memorial United Evangelistic Church making preliminary plans at 2d and Arch St. About $10,000. A. H. Hartman, Scranton, Arch. Noted Oct. 26.

Penn., Chester—Church—Evangelical Lutheran Congregation receiving bids Nov. 20, for 2-story, 38x80-ft. stone. H. Miller, Chester, Arch.

Penn., Coatsville—Hotel—Midvale Steel and Ordinance Co. plans, brick. About $50,000.

Penn., Coudersport—High School—School Dist. received bids Nov. 21, at Main and Water St. Hersch & Hersch, Central Trust Bldg., Altoona, Arch.

Penn., Dunmore—High School—City retained H. J. Blackmore, Arch., 445 Quincy Ave., Scranton, to make plans. About $100,000.

Penn., New Castle—Cathedral—F. & A. M. plan, 250x250-ft., Highland and Laurel Ave. About $250,000.

Penn., Scranton—Church—Roman Catholic Congregation making plans, 1-story, 60x140-ft., brick and stone, at Gibson and Taylor St. About $40,000.

Penn., South Bethlehem—Clubhouse—Moose Lodge making plans, 3-story, 44x80-ft., brick and stone.

Penn., West Chester—School—Bd. Education making plans for 3-story, concrete and brick. About $125,000. P. A. Davis, Arch.

D. C., Washington—Theater—Penn Garden making plans, 4-story, 128x158-ft. About $250,000. E. D. Ryerson, 3758 Northampton St., Washington.

Va., Lynchburg—Y. M. C. A. plans building. About $100,000.

Va., Newport News—School—Bd. Education making plans, 3-story. About $80,000. Ferguson, Calrow & Wrenn, Virginia Bank Bldg., Arch.

Va., Roanoke—Freight Station—Norfolk & Western R.R. made plans, Commerce and Park St. About $380,000. J. E. Crawford, Roanoke, Ch. Engr.

Ala., Birmingham—Birmingham Infirmary making plans for central building. About $50,000. B. Brice, Empire Bldg., Arch.

Ky., Ashland—Schools—City voted $200,000 bonds.

Ky., Louisville—Dormitory and Club House Dirs. Pendennis Club plan 6- or 7-story. M. E. Taylor, Pres.

Ohio, Bedford—School—City voted $50,000 bonds. E. F. Senter, Clk. Noted Nov. 2.

Ohio, Dayton—Dayton Aerie of Eagles making plans for 3-story, 80x100-ft. addition to building on South Main St. About $50,000. Pretzinger & Musselman, 1155 Reibold Bldg., Arch. Noted Oct. 5.

Ohio, Felicity—School—City plans, 2-story. About $40,000. C. P. Kennedy, Clk.

Ohio, Geneva—Hospital—Geneva Emergency Hospital making plans, 3-story, 35x40-ft. Briggs & Nelson, Rose Bldg., Cleveland, Arch.

Ohio, Lebanon—High School—Bd. Education retained Bausmith & Drainie, Arch., Gerke Bldg., Cincinnati, to make plans. About $60,000.

Ohio, Lima—City making plans for South Side Technical High School.

Ohio, Lorain—Hotel—C. Farrel made plans, 4-story, Broadway and Erie Ave. About $50,000. Noted Oct. 12.

Ohio, Norwood—Seminary—Mt. St. Marys Theological Seminary receiving bids about Jan. 1. About $450,000. A. Kunz, Jr., 955 West Court St., Cincinnati, Arch. Noted July 20.

Ohio, Rocky River—School—Town voted $75,000 bonds.

Ohio, Warrensville—Council approved $100,000 bond issue to enlarge tuberculosis sanitarium. L. T. Beman, City Hall, Cleveland, Dir. Pub. Welfare. Noted Oct. 26.

Ohio, Wellsville—High and Grade School—Bd. Education receiving bids Dec. 6. Noted Oct. 5.

Ohio, Youngstown—Freight Depot—Pennsylvania Railroad Co. plans, at foot of South Phelps St. A. C. Shand, Philadelphia, Ch. Engr.

Ind., Crawfordsville—Gymnasium—Wabash College plans. About $75,000. Herbert Foltz, Pythian Bldg., Indianapolis, Arch.

Ind., Ft. Wayne—Y. M. C. A. retained C. R. Weatherbogg, Arch., to make plans for building. About $300,000.

Ind., Indianapolis—Science Building—Indiana State Normal School plans. About $94,364.

Mich., Alma City—School—Bd. Education plans. About $100,000. O. Sanderhoff, Pres. Bd. Education.

Mich., Chesaning—High and Grade School—Bd. Education making plans, 2-story. About $65,000. J. D. Chubb, 109 North Dearborn St., Chicago, Ill., Arch.

Mich., Detroit—Hotel—W. H. Montgomery making plans, 3-story, 100x180-ft. Lumblad & Lumblad, 2060 Penobscot Bldg., Detroit, Arch.

Mich., Midland—Community Building—Dow Chemical Co. receiving bids Nov. 23, 2-story. About $50,000. Cowles & Mutscheller, 114 Washington St., Saginaw, Arch.

Mich., Walkerville—High School—School Bd. plans.

Ill., Champaign—Church and Rectory—Episcopal Church making plans. About $50,000. Cram & Forguson, 33 West 42d St., New York, N. Y., Arch.

Ill., Peoria—Hospital—Sanitarium Comn. plans tuberculosis hospital. About $55,000. E. S. Woolner, Chn.

Wis., Kenosha—Club House—B. P. O. E. No. 750 receiving bids Nov. 20, 3-story. About $100,000. R. A. Messmer & Bro., Majestic Bldg., Milwaukee, Arch. Noted Oct. 5.

Wis., Madison—Y. M. C. A. making plans for building. About $150,000. Noted Nov. 2.

Wis., Milwaukee—Hotel—I. Miller, Herman Pereles and Walter W. Kauwertz making plans, 4th and Sycamore St. About $300,000. Leiser & Holtz, Milwaukee, Arch.

Iowa, Alburnett—School—Consolidated School Dist. receiving bids Nov. 30. A. B. Olsen, Secy.

Iowa, Boone—Y. M. C. A. plans new building. About $50,000.

Iowa, Cedar Rapids—A. N. Palmer, 300 Irving Pl., New York, plans rein.-con. 4-story, 120x140-ft. business building at Cedar Rapids.

Iowa, Centerville—High School—City plans to issue $150,000 bonds.

Iowa, Hampton—Hotel—Bankers Realty Investment Co., Arch., Omaha, Neb., making plans, 3-story, brick and terra cotta. About $75,000.

Iowa, Mason City—School—Independent School Dist. receiving bids Dec. 10. About $40,000. E. R. Bogardus & Son, 119½ North Federal Ave., Mason City, Arch. Noted Aug. 24.

Iowa, Sioux City—Nurses' Home—St. Joseph's Hospital plans 4-story, brick and terra cotta.

Iowa, Sioux City—Church—First Baptist Congregation making plans. About $75,000. Bentter & Arnold, 609 Security Bldg., Arch.

Minn., Cloquet—High School—City voted $7[illegible],000 bonds.

Minn., Hanska—High School—Village soon votes on bonds. About $60,000.

Minn., Madison—Hotel—Kletzech Bros., Milwaukee, plan 7-story addition to Park Hotel. About $250,000.

Buildings (Continued)

Minn., Wells—School—City voted $50,000 bonds.

Minn., Minneapolis—Y. M. C. A. receiving bids May 1 for 8-story, 125x160-ft. building. About $500,000. Long-Lamoreaux & Long, 830 Hennepin Ave., Arch. Noted Nov. 2.

Kan., McPherson—Theater—J. Tourney, making plans, brick and terra cotta.

Kan., Paola—School—Bd. Education voted $60,000 bonds. Noted Sept. 28.

Neb., Havelock—(Official)—High School—City voted bonds. W. F. Gernandt, 437 Keeline Bldg., Omaha, Arch. F. B. Young, Secy. Noted Oct. 5.

Neb., Omaha—School—Druid Hill School Dist. rejected bids. New bids soon. About $70,000. F. A. Henninger, 606 Rose Bldg., Arch.

Neb., Superior—J. H. Agee, Chamber of Commerce, plans organizing company to build hotel. About $50,000.

Mont., Conrad—City Hall—City voted bonds.

Mont., Fairview—Bank—Moorman & Co., Arch., 501 Minnehaha St., St. Paul, Minn., making plans, brick and stone. About $60,000.

Mo., Alton—School—School Bd. plans to vote in spring on $45,000 bonds.

Mo., Bowling Green—(Official)—Court House—City voted $100,000 bonds. Noted Sept. 14.

Mo., Bowling Green—Hotel and Sanitarium—Bowling Green Mineral Springs Co. made preliminary plans. About $175,000. J. H. Lynch, 625 Locust St., St. Louis, Arch.

Mo., Galena—Court House—Stone County defeated $50,000 bonds. Noted Oct. 19.

Mo., Maplewood—High School—Bd. Education receiving bids Nov. 21. About $100,000. Miller & Chaffee, Jefferson City, Arch. Noted May 11.

Tex., Amarillo — School — City voted $50,000 bonds. Noted Nov. 2.

Tex., Austin—State soon receives bids for land office building. About $300,000. A. B. Ayers, Arch.

Tex., Dallas—Mechanical College of Texas and Prairie View Normal School made plans for buildings. About $215,000. W. B. Bizzell, Pres.

Tex., El Paso—Court House—City votes Nov. 29 on $450,000 bonds.

Tex., Ft. Worth—Hotel—Moore & Clopton plan 15-story. About $500,000.

Tex., Houston—High School—Bd. Education making plans. Aanguinet, Staats & Gottleib, Arch.

Tex., San Angelo—Hotel—C. C. McBurnett plans. About $150,000.

Tex., Sulphur—Draughon's Business College made plans for 3-story, 79x90-ft. building. About $60,000. G. E. Blumenauer, Sulphur Springs, Arch.

Tex., Tyler—School—City voted $85,000 bonds. Noted Nov. 2.

Tex., Victoria—School—Bexar County election soon to vote on $10,000 bonds for addition to Alamo Heights School. Noted Mar. 9.

Okla., Ardmore — Hotel — Ardmore Hotel Co. making plans for 6-story, rein.-con. and brick, at C and Main St. Wight & Wight, First National Bank Bldg., Kansas City, Mo., Arch. Noted Aug. 10.

Okla., Bartlesville—(Official)—High School—City voted $100,000 bonds. Noted Oct. 12.

Okla., Stillwater—Court House—Payne County voted $100,000 bonds. Noted Sept. 28.

Okla., Tulsa—Church—First Church of Christ Scientist making plans. Bids soon. About $50,000. MacDonald & Fabry, 405 First National Bank Bldg., Arch.

Colo., Denver—Hotel—Bishop—Cass Investment Co. making plans, 16-story, at 16th and Arapahoe St. About $1,000,000. Fisher & Fisher, Railway Exchange Bldg., Arch.

Colo., Estes Park—Hotel—E. O. Stanley plans. About $200,000.

Wash., Mt. Vernon—School—City soon lets contract, 2-story, 76x132-ft. About $60,000. Stephen & Stephen, New York Blk., Seattle, Arch.

Ore., Bend—Hospital and Convent—Sisters of Charity of Nazareth plan. About $75,000.

Ore., Corvallis—School—City to vote in November on $75,000 bonds.

Ore., Portland—Schools—University of Oregon making plans. About $150,000. Whitehouse & Fouilhoux, Arch.

Calif., Fresno — Theater—M. R. Parra plans. About $50,000.

Calif., Long Beach—Theater—E. E. Gagon, Mgr. Empress Theater, plans. About $150,000.

Calif., Palo Alto—Bd. Education retained Allison & Allison, Hibernian Bldg., to make plans for Palo Alto Union High School, Dist. No. 3. About $150,000.

Calif., San Bernardino—Anderson & Co. plan 5-story, 55x150-ft. rein.-con. office building, 3rd and E St.

Calif., San Diego—Hospital—Agnew Sanitarium made preliminary plans, 4-story, Beech and 6th St. D. Gochenauer, M. D., Pres.

Calif., Santa Barbara—Prince Hopkins Institution soon lets contract for 3-story, 100x150-ft. rein.-con. academy building. J. C. Poole, Santa Barbara, Arch.

N. S., Kentville—Sanitarium—Dominion Government, Dept. Pub. Wks., making plans. Abuot $60,000. A. Miller, M. D., Kentville, Provincial Supt.

Que., Lauzon—Home for Infants and Aged soon lets contract for new building. About $55,000. Noted Nov. 2.

Bids In and Contracts Awarded

Maine, Augusta—Hospital—Augusta State Hospital let contract addition to O. NELSON CO., Bangor. About $62,500. Noted Oct. 5.

Maine, Portland—High School—City let contract to F. W. CUNNINGHAM & SONS, 430 Congress St., Portland. About $560,000.

Mass., Boston—Club House—Bunker Hill Boys' Club of Charleston let contract, 2- and 3-story, 70x164-ft. to MARR BROS. & STEWART, 319 Washington St., Boston, $125,000. Noted Sept. 21.

Mass., Brockton—School—City let contract, 2-story, 35x170-ft. addition, to H. C. BRIGGS, Brockton. About $84,999. Noted Aug. 24.

N. Y., Mt. Pleasant—Almshouse—County let contract, 2-story, 100x400-ft., to P. J. BRENNAN, 624 Madison Ave., New York, $500,000.

N. Y., Potsdam—School—State Normal and Training School received low bids, 3-story, 170x280-ft., from T. H. McHale & Son, Syracuse, $250,638; Bradley & Weed, Inc., 200 5th Ave., New York, $254,000. L. F. Pilcher, Capitol, Albany, Arch. Noted Oct. 5.

N. Y., Syracuse—School—Sacred Heart Society let contract, 2-story, 76x154-ft., to DAWSON BROS., 231 Union Bldg., Syracuse. About $50,000. Noted Sept. 21.

N. Y., West Haverstraw—Hospital—New York State Hospital for Crippled and Reformed Children, West Haverstraw, received low bid from W. H. Egan, 147 East 125th St., New York, $41,923. Noted Oct. 12.

Penn., McKees Rocks—Clubhouse—Probation Society let contract to W. SEMLER, McKees Rocks.

Va., Petersburg—High School—Bd. Education let contract, 2-story, to HARDWOOD & MOSS, Newport News, $121,000. Noted July 20.

W. Va., Logan—Hotel and Store—H. Ghiz let contract, 4-story, 102x110-ft., to J. WEBER, College Hill, Cincinnati. About $45,000. Noted Aug. 17.

Ga., Macon—Store—Union Dry Good Co. let contract 5-story, Cherry St., to F. S. FULGUM, Pensacola, Fla. About $85,000.

La., Shreveport—School—Caddo School Bd. let contract to W. H. WERNER, Shreveport, $60,800. Noted May 11.

Tenn., Clarksville—Church—First Baptist Congregation let contract to FOSTER-CREIGHTON GOULD CO., First National Bank Bldg., Nashville, $60,000. Noted Nov. 2.

Ohio, Akron—Hospital—City Hospital let contract remodeling and extensions, East Market St., to E. McSHAFFERY & SON CO., Akron. About $100,000. Noted July 27.

Ohio, Old Fort—School—School Bd. let contract to ZIEMKE BROS., Sandusky, $40,000. Noted Sept. 7.

Mich., Battle Creek—Y. M. C. A. let contract 2½-story, 85x90-ft. buliding to S. B. COLE, Norgan Blk., Battle Creek. About $50,000. Noted July 27.

Mich., Ypsilanti — Administration Building — Michigan State Normal College let contract to A. R. COLE, INC., Ann Arbor, $136,394. Noted Oct. 12.

Ill., Homewood—Club House—Ravisloe Country Club let contract, 1- and 2-story, to P. DAHL, 11 South La Salle St., Chicago. About $150,000. Noted Sept. 28.

Ill., Peoria — Church — Union Congregational Church let contract to MENELEY CONSTRUCTION CO., 533 Main St., Peoria.

Iowa, Ames—Dormitory—Bd. Education, Capitol, Des Moines, rejected bids, No. 3. Proudfoot, Bird & Rawson, Hubbell Bldg., Des Moines, Arch. Noted Oct. 26.

Iowa, Grinnell—Boy's Dormitory—Grinnell College let contract, 3-story, rein.-con., to BAILEY-MARSH CO., 725 Metropolitan Life Bldg., Minneapolis, Minn. About $200,000.

Iowa, Sioux City—Hospital—Benedictine Sisters let contract to B. E. SHORT, 422 Court St., $150,000.

Minn., Anoka—Infirmary—Anoka Insane Asyulm received low bid from Cameron & Co., Ryan Bldg., St. Paul, $48,966.

Minn., Hibbing—Church—Methodist Episcopal Society rejected bids, 2-story, 55x75-ft. Austin Terryberry, Duluth, Arch.

Min., St. Cloud — Church—First Presbyterian Congregation let contract, 1-story, 50x100-ft., to E. HIRT & SON, St. Cloud. About $40,000. Noted Aug. 17.

N. D., Mandran—Hotel—L. B. Hanna let contract reconstructing Inter-Ocean Hotel to MEINICKE BUILDING CO. About $100,000. Noted Nov. 9.

Mo., Joplin—Department Store—Christman Dry Goods Co. let contract to C. W. BANE, 1815 Jackson St. About $85,000.

Okla., Tulsa—S. Jankowsky let contract 4 additional stories to office building on 4th and Main St. to UNIVERSAL CONSTRUCTION CO., Tulsa. About $68,500.

Ore., Grants Pass—(Official)—Court House—Josephine County let contract to J. M. DOUGAN & CO., Couch Bldg., Portland, $76,443. Noted Oct. 26.

Calif., Oakland—Hospital—Bd. County Supervs. let contract to W. G. THORNALLY, 3027 East 16th St., Oakland, $106,985.

Que., Montreal—School—School Bd. let contract addition to DUROCHER & ARCHAMBAULT, 706 St Catherines St., E., $155,000.

Ont., Ottawa—Norlite Realty Co. let contract brick and stone office building to DORAN & DEVLIN, Ottawa, $130,000.

TRADE PUBLICATIONS

Lupton Service Products. David Lupton's Sons Co., Philadelphia, Penn. Catalog No. 9. Pp. 98. 8½x11 in. This describes in detail Lupton Counter-Balanced Steel Sash, Continuous Sash, Pond Operating Device and other products made by this company.

Manganese Steel Sand and Gravel Pumps and Wearing Parts for Pump Dredges. American Manganese Steel Co., Chicago, Ill. Bulletin No. 72. Pp. 16. 6x9 in. Illustrated.

Trucks and Turntables. Whiting Foundry Equipment Co., Harvey, Ill. Catalog No. 124. Pp. 16. 6x9 in. Illustrated.

"Clipper" Drills. The Denver Rock Drill Manufacturing Co., Denver, Colo. Bulletin C-3. Pp. 16. 6x9 in. Illustrated.

Standardized Metal Caging for Fireproof Buildings. Mitchell-Tappen Co., 50 Broad St., New York. Bulletin No. 14. Pp. 12. 4x9½ in. Illustrated.

Water Meters. National Meter Co., 84-86 Chambers St., New York. Loose-Leaf Catalog. 8½x10 in. Illustrated. This covers the various types of water meters manufactured by this company—all very well known.

Buckets. The Hayward Co., 50 Church St., New York. Catalog No. 43; pp. 80, 6x9 in. Illustrated. This describes the different types of buckets made by this company.

Water-Controlling Apparatus. Rodney Hunt Machine Co., Orange, Mass. Catalog No. 30; pp 112; 6x9 in.; illustrated. This describes flumes, penstocks, standpipes, gates, valves, hoists, etc.

The Giles Drilling Co., 30 Church St., New York, N. Y., has taken over the business, plant and equipment of the firm of Giles & Clark, which was dissolved by the retirement of Edward A. Clark.

PARK IMPROVEMENTS, WESTFIELD, N. J.

Bids were received by Bd. of Park Comrs. for park improvements from (A) G W. LAWRENCE, 20 Clinton St., Newark (awarded contract); (B) J. F. Shanley Co., Essex Bldg., Newark; (C) George Scott, Irvington. The item bids were as follows:

	A	B	C
Grubbing and clearing (lump sum)	$650.00	$300.00	$5,500.00
12,500 cu.yd. excavation	.55	.55	.75
25 cu.yd. sand surfacing	7.00	3.20	2.25
13 tons spreading fertilizer	5.00	1.25	10.00
5 acres finishing and seeding grades	40.00	70.00	100.00
100 cu.yd. top soil furnished	1.50	2.65	2.50
2,000 sq.yd. sodding	.30	.60	.50
5,820 sq.yd. 6-in. macadam	.85	1.10	.95
5,300 sq.yd. gravel paths	.70	.63	.55
100 sq.yd. cobble gutters	.60	1.50	2.00
600 lin.ft. 8-in. drain pipe	.70	.65	.70
380 lin.ft. 10-in. drain pipe	.85	.78	.80
170 lin.ft. 12-in. drain pipe	1.10	.87	.88
80 lin.ft. 15-in. drain pipe	1.35	1.05	1.02
500 lin.ft. 4-in. underdrain	.50	.35	.50
200 lin.ft. 6-in. underdrain	.60	.40	.56
9 brick catch basins	80.00	60.00	40.00
17 pipe catch basins A	27.00	21.00	30.00
1 pipe catch basin B	11.50	18.00	20.00
2 inlets A	17.00	10.00	20.00
1 inlet B	20.00	10.00	20.00
66 lin.ft. concrete culvert-24 ft	2.00	2.25	2.00
20 cu.yd. extra concrete	7.50	10.00	10.00
80 lin.ft. concrete curb and gutter	.90	.90	.90
90 lin.ft. 4-in. blue stone curb set	.75	.75	.75
Extended totals	$20,506	$21,583	$28,193

SEWER, PHILADELPHIA, PENN.

Bids were received by the Dept. City Transit, Oct. 24, for the reconstruction of sewer in Thompson St. from east of 7th St. to west of Broad St. from (A) Keystone State Construction Co., 704 Pennsylvania Bldg., Philadelphia; (B) Lombardi & Perna, 600 Lincoln Bldg., Philadelphia; (C) Adolph Jaffola, 139 East 50th St., Philadelphia. The item bids were as follows:

DESIGN A	A	B	C
426 lin.ft. brick sewer, 9 ft., 0 in. diameter in cradle	$58.00	$66.00	$73.00
100 lin.ft. brick sewer, 9 ft., 0 in. diameter, minimum section	51.00	62.00	70.00
1194 lin.ft. brick sewer, 8 ft. 0 in. diameter in cradle	64.00	65.00	69.50
1466 lin.ft. brick sewer, 8 ft., 0 in. diameter, minimum section	62.00	64.00	69.00
Concrete special section (lump sum)	16,000.00	14,000.00	13,000.00
100 lin.ft. vitrified clay pipe, 6-in. diameter, not in concrete	1.00	3.00	.60
100 lin.ft. steel bound granolithic curb	2.00	4.00	3.00
10,000 dollars force account, expenditure, % added	20%	10%	15%
Extended totals Design A	$215,416	$221,450	$237,095
DESIGN B	A	B	C
427 lin.ft. concrete sewer, 9 ft., 6 in. x 6 ft., 9 in. in cradle	$52.00	$59.00	$74.00
100 lin.ft. concrete sewer, 9 ft., 6 in. x 6 ft. 9 in. minimum section	49.00	58.00	71.00
1194 lin.ft. concrete sewer, 8 ft., 0 in. x 6 ft. 3 in. in cradle	58.00	58.50	71.50
1466 lin.ft. concrete sewer, 8 ft., 0 in. x 6 ft., 3 in., minimum section	58.00	57.00	70.00
Concrete special section (lump sum)	16,000.00	14,000.00	13,000.00
100 lin.ft. vitrified clay pipe, 6 in. diameter, not in concrete	1.00	3.00	.60
100 lin.ft. steel bound granolithic curb	2.00	4.00	3.00
10,000 dollars force account, expenditure, % added	20%	10%	15%
Extended totals Design B	$199,684	$200,104	$241,549

PAVING, CLINTON, OKLA.

Bids were received Oct. 31 by city for sheet asphalt paving, street improvement Dist. No. 1, from (A) WESTERN PAVING CO., Oklahoma City (awarded contract); (B) F. P. McCormick, St. Louis, Mo.; (C) M. A. Swatek & Co., Oklahoma City. The item bids were as follows:

	A	B	C
27,445 sq.yd. sheet asphalt paving	$1.96	$2.00	$1.99
10,500 cu.yd. earth excavation	.35	.35	.35
250 cu.yd. rock excavation	1.50	1.40	1.25
2,900 lin.ft. straight concrete curb	.58	.60	.59
310 lin ft. rad. concrete curb	.64	.65	.65
200 lin.ft. curb reset	.25	.15	.25
1,920 lin.ft. mar. curb and header	.25	.23	.28
19 curb inlet basins	20.00	17.00	19.50
7 manholes	39.00	37.00	40.00
740 lin.ft. 10-in. drain pipe	.55	.55	.54
720 lin.ft. 12-in. drain pipe	.67	.77	.70
720 lin.ft. 15-in. drain pipe	.85	.85	.84
610 lin.ft. 18-in. drain pipe	1.10	1.06	1.08
80 water taps	6.00	5.75	5.85
7,680 lin.ft. ⅝-in. lead pipe	.15	.14	.15
Extended totals	$68,269	$68,669	$69,145

SEWER SYSTEM, BAYHEAD, N. J.

Bids were received by city for constructing sewer system from (A) FIELD, BARKER & UNDERWOOD, Philadelphia (awarded contract); (B) John M. Kelley Contracting Co., Camden; (C) Whiting Turner Construction Co., Baltimore. The item bids were as follows:

	A	B	C
1,490 lin.ft. 6-in. terra cotta pipe 0 to 4 ft. deep	$0.95	$0.97	$0.97
6,215 lin.ft. 8-in. terra cotta pipe, 0 to 4 ft. deep	1.08	1.05	1.08
14,158 lin.ft. 8-in. terra cotta pipe, 4 to 6 ft. deep	1.25	1.29	2.62
2,129 lin.ft. 8-in. terra cotta pipe, 6 to 8 ft. deep	1.50	1.46	3.04
45 lin.ft. 8-in. terra cotta pipe, 8 to 10 ft. deep	2.13	3.23	3.62
3,178 lin.ft. 10-in. terra cotta pipe, 0 to 4 ft. deep	1.25	1.19	1.37
100 lin.ft. 10-in. terra cotta pipe, 4 to 6 ft. deep	1.35	1.43	2.85
528 lin.ft. 10-in. terra cotta pipe, 6 to 8 ft. deep	1.48	1.70	3.39
826 lin.ft. 10-in. terra cotta pipe, 8 to 10-ft. deep	2.00	3.30	3.89
24 lin.ft. 10-in. terra cotta pipe, 10 to 12 ft. deep	3.30	3.75	4.42
270 lin.ft. 12-in. terra cotta pipe, 10 to 12 ft. deep	3.38	3.85	4.56
36 lin.ft. 8-in. c.-i. pipe, 6 ft. deep	1.82	4.44	21.00
56 lin.ft. 8x5-in. terra cotta "T" branches	.50	.64	1.21
19 10x5-in. terra cotta "T" branches	.72	.87	1.60
4 12 x 5-in. terra cotta "T" branches	.90	1.05	2.02
25 6x5-in. terra cotta "Y" branches	.45	.50	.85
385 8 x 5-in. terra cotta "Y" branches	.50	.63	1.21
327 lin.ft. terra cotta deep cut connections	.50	.39	4.25
12 manholes, complete, 0 to 4 ft. deep	45.00	45.00	40.00
24 manholes, complete, 4 to 6 ft. deep	50.00	55.41	40.00
4 manholes, complete, 6 to 8 ft. deep	60.00	64.53	50.00
2 manholes, complete, 8 to 10 ft. deep	80.00	78.63	65.00
4 manholes, complete, 10 to 12 ft. deep	125.00	88.20	75.00
25 lin.ft. drop pipe for drop manholes	1.00	2.01	.75
9 lamp holes	10.00	10.50	10.00
2 flush tanks, type "A-" 0 to 4 ft. deep	125.00	154.00	105.00
1 flush tank, type "A" 6 ft., 6 in. deep	140.00	180.00	105.00
14M ft. b.m. 1 x 8-in. hemlock planks	40.00	33.00	40.00
16M ft. b.m. 2 x 8-in. hemlock planks	40.00	33.00	40.00
2,800 lin. ft. 8-in. c.-i. force main	1.80	1.70	1.75
Extended totals	$46,510	$47,786	$74,198

* The sub soil is practically pure sand with ground water at Bayhead

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Arnold W. Brunner, noted throughout the United States as the designer of the Cleveland civic center and who has thought out many of the municipal problems of New York and other large cities, has been retained by the Board of Public Grounds and Buildings of Pennsylvania to design the grounds about the Capitol Building of Pennsylvania at Harrisburg, Penn. Warren H. Manning, landscape architect of Boston, who has been the consulting expert in Harrisburg's park development program of the last 10 years, was retained as Mr. Brunner's consulting landscape architect. The Capitol grounds which now occupy 16 acres are being extended to occupy 45 acres, and the designing of these new grounds is the big job ahead for Mr. Brunner although the old grounds are to be made to conform with entire scheme and to serve as a fitting setting to the Capitol building. The city will coöperate with the state in the work in the matter of widening streets about the Capitol grounds and so on.

The Dunn Wire-Cut Lug Brick Co., Conneaut, Ohio, has added the Cleveland Brick and Clay Co., Cleveland, and the Jamestown Shale Paving Brick Co., Jamestown, N. Y., to its list of licensees to make wire-cut lug paving brick. The officers of the former company, which has a daily capacity of 60,000 blocks, are J. L. Highley, Pres., and A. L. Hendershot, Secy. The latter company has a daily capacity of 65,000 blocks and its officers are A. N. Broadhead, Pres., Thomas Mahoney, Vice-Pres., J. B. Fisher, Secy., R. F. Fisher, Mgr., and A. B. Breen, Supt.

Construction News Items in Engineering News Increase by 67%!

Look at These Figures!

In 1915,
During the first ten months,
Engineering News
Published
27,283
Construction News
Items

Ahead of All Other Engineering Papers.

The increase is in Quantity, of course. There was no room for improvement in Quality. Engineering News' service is always
as authentic,
as reliable,
as complete.
as is humanly possible.

In getting the Most, you are also getting the Best!

And Now Look at These!

In 1916,
During the first ten months,
Engineering News
Published
45,672
Construction News
Items

Ahead Even of Our Own Record!

Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

New York—International Railway Co., Buffalo, granted franchise to double-track line on Elmwood Ave., about 1 mi. J. C. Sheldon, Buffalo, Pur. Agt. Noted Sept. 21.

New York—International Railway Co., Buffalo, granted franchise by Council to double-track line and operate cars through Franklin St. from Chippewa to Allen St. J. C. Sheldon, Buffalo, Pur. Agt. Noted June 8.

Virginia—T. S. Wheelwright, Pres. Virginia Rys. and Power Co., Richmond, interested in railway from Richmond to Forest Hill and Bon Air, about 7 mi.

Georgia—Georgia & Florida R.R. and Atlanta, Birmingham & Atlantic R.R. plans to extend lines from Atlanta to Savannah. E. B. Eppes, Augusta, Ch. Engr. of former and L. L. Beall, Atlanta, of latter.

Georgia—Rome & Northern Ry. plans to extend line from Gore to Subligna, about 9 mi. H. H. Shackleton, Rome, Gen. Mgr.

Louisiana—Atchison, Topeka & Santa Fe Ry. plans line from Oakdale to New Orleans, about 150 mi. C. F. W. Felt, Chicago, Ch. Engr.

Tennessee—Cincinnati, New Orleans & Texas Pacific Ry. plans branch to new industrial section, North Chattanooga, about 7 or 8 mi. C. Dougherty, Cincinnati, Ch. Engr.

Kentucky—Mowbray & Robison Co., 8th and Horn St., Cincinnati, plans railway in Leslie County, Hyden, to timber and coal lands.

Indiana—M. J. Dale, of Dale & Dale, 943 Mercantile Library Bldg., Cincinnati, interested in railway from Aurora to Scottsburg. About $1,500,000.

Illinois—Chicago, North Shore & Milwaukee Electric Railway, Highwood, plans to extend Libertyville and Area branch to tap lake districts of county. Line may eventually be extended to Woodstock and McHenry. W. D. Johnson, 209 South La Salle St., Chicago, Receiver.

Wisconsin—Wisconsin Valley Electric Ry. plans to extend Wausau branch from Wausau to Stevens Point and possibly Grand Rapids. M. C. Ewing, 209 3rd St., Wausau, Gen. Mgr.

Oklahoma—Cheyenne Railroad Co. incorporated to build line from Strong City to Cheyenne, about 7 mi. J. C. Mytinger and J. R. Jones, Wichita Falls, interested.

Oklahoma—Tulsa Traction Co., Tulsa, plans extension to Sapulpa. A. J. Biddison, Tulsa, Vice-Pres.

Utah—Ogden, Logan & Idaho Railway Co. plans extension from Logan through Canyon to Bear Lake. R. W. Armstrong, Ogden, Ch. Engr.

Utah—Salt Lake & Ogden Railway Co. plans to double-track line from Clearfield to Layton, about 4 mi. J. M. Bamberger, Salt Lake City, Pres. and Gen. Mgr.

Quebec—Quebec Railway Light and Power Co., Quebec, plans about 4 mi. new track next year. H. G. Matthews, Crown and St. Josephs St., Quebec, Gen. Mgr.

Bids In and Contracts Awarded

Pennsylvania—Pennsylvania R.R. let contract improving Reed St. freight yards, Philadelphia, to J. MEEHAN & SONS, 915 West Dauphin St., Philadelphia. Noted Nov. 9.

West Virginia—Norfolk & Western Ry. plans to extend electric operation on main line from Vivian to Farm, about 11 mi., also extend Tug Fork Branch from Welch to Wilcoe, about 5 mi., and Bluestone Branch from Cooper to point beyond Simmons, about 3 mi. Part of work to be done by company forces and part by GIBBS & HILL, New York. Noted Aug. 17.

Illinois—Murphysboro & Southern Illinois Electric Railway Co. let contract extending line from Murphysboro to Carbondale to HEMAN CONSTRUCTION CO., Title Guaranty Trust Bldg., St. Louis, about $200,000.

Texas—Missouri, Kansas & Texas Ry. let contract steam-shovel work on line from Katy Junction to where main line will cross San Antonio River near Roosevelt Ave. to POTTER & HEAD, Chicago, about $90,000.

LIGHT, HEAT AND POWER

Proposed Work

Vt., Hawkesbury—Riordon Pulp and Paper Co. plans addition to boiler house. About $30,000.

Conn., Waterbury—A. H. Wells Co., Inc., making plans for 40x50-ft. power house. C. H. Preston, Jr., 136 Grand St., Waterbury, Arch.

Penn., Topton—Borough defeated $7,000 electric-light plant bonds.

Tenn., Memphis—Chickasaw Cooperage Co. will rebuild power house, recently destroyed by fire.

Ky., Olive Hill—See item under "Water-Works."

Ohio, Cleveland—City voted $1,750,000 bonds for extending and improving electric-light plant. W. E. Davis, 228 City Hall, Light Comr.

Ohio, Cleveland—Euclid-Dean Co., Euclid Ave. and East 105th St., plans power plant.

Ohio, East Palestine—Bd. Trustees of Pub. Affairs receiving bids Nov. 27 for power plant and water-works station. J. W. Smith, Clk.

Mich., Mt. Clemens—Mt. Clemens Gas Light Co. plans rebuilding its plant. About $30,000.

Wis., Sheboygan—Sheboygan Dairy Products Co. making plans for 1-story power house and dairy building. Jull & Sixta, Imig Bldg., 805 North 8th St., Sheboygan, Arch.

Minn., Erskine—City soon receives bids for sale of $5,000 bonds for electric-light system. O. H. Rash, Clk.

Minn., Ghent—Citizens' Light, Heat and Power Co. granted franchise for electric-light plant. C. Foulon, Pres.

Minn., Waconia—Northern States Power Co. plans transmission line from Waconia to Redwood Falls.

Neb., Bertrand—City voted $11,000 bonds for electric-lighting system.

Neb., Cortland—City plans electric-light and power plant.

Neb., Odell—J. Barry plans to rebuild electric-light plant destroyed by fire.

Mo., Sheridan—City plans electric-light plant.

Ark., Coal Hill—Ferguson & Hicks plan to rebuild electric-light plant destroyed by fire.

Ark., England—England Public Service Co. recently incorporated with $100,000 capital stock, plans electric-light plant in England.

Ark., Heber Springs—Arkansas Hydro-Electric Co. plans to improve plant. G. A. Watkins, Little Rock, Secy.

Tex., Hemphill—Knox Lumber Co. will build electric-light and power plant at Hemphill to furnish light and power for mills at East Mayfield.

Okla., Beaver—City election Dec. 11 to vote on $8,000 electric-light plant bonds.

Okla., Durant—North American Light and Power Co. making plans for electric-light and ice-storage plant. About $18,000. W. A. Boehr, 22 South Michigan Ave., Chicago, Pres.

N. Mex., Santa Fe—(Official)—C. G. Wilfong, Pres. Rio Grande Light, Heat and Power Co., 119 South 4th St., Philadelphia, receiving bids Jan. 2 for materials and work for hydro-electric development at mouth White Rock Canyon of Rio Grande River. A. G. Hillberg, Park Row Bldg., New York, Engr. (See adv. Nov. 16 issue.)

Ont., Grimsby—Radiest Electric Co. plans addition to plant. About $20,000.

Bids In and Contracts Awarded

Conn., Bridgeport—Crawford Laundry Co., 435 Fairfield Ave., let contract 1-story, 40x60-ft. boiler house and engine room to DOWLING & BOTTOMLEY, 1119 Broad St., Bridgeport.

N. Y., Utica—House of Good Shepherd, 446 Genesee St., let contract 1-story, 30x75-ft. boiler house to GRIFFITHS & PIERCE, 618 Charlotte St., Utica. About $4,000.

Ill., Chicago—Metropolitan West Side Elevated Railroad Co. let contract sub-station to ADAMS CONSTRUCTION CO., 111 West Washington St., Chicago.

Wis., Valders—Wisconsin Condensed Milk Co., Burlington, let contract 1-story, 110x215-ft. power house to W. W. OFFLEIN, North Milwaukee.

Iowa, Cedar Rapids—Iowa Railway and Light Co. let contract hydro-electric plant to R. A. WALLACE, Downs, about $90,000.

BRIDGES

Proposed Work

Mass., Boston—New York, New Haven & Hartford R.R. plans to rebuild 11 bridges over streets of South Boston. About $1,000,000 E. Gagel, New Haven, Ch. Engr.

R. I., Providence—Citizens voted $300,000 bridge bonds. M. H. Bronsdon, City Engr.

N. Y., Hinsdale—See item under "Streets and Roads."

N. Y., Tonawanda—New York Central R.R. plans bascule bridge over Tonawanda Creek on Webster Ave. G. W. Kittredge, Grand Central Terminal, New York, Ch. Engr.

N. J., Newark—Bd. Freeholders, Essex County, plans concrete bridge over Second River on Mt. Prospect Ave.

Penn., Lebanon—City plans 8 bridges. P. A. Volcker, City Engr.

Va., Abingdon—Holston River Lumber Co. plans 200-ft. steel bridge. H. T. Ballah, Ch. Engr.

N. C., Charlotte—(Official) Comrs. Mecklenburg and Gaston Counties receiving bids Nov. 27 for bridge over Catawba River at Sloans Ferry. M. McDonald, Charlotte, Chn. Comrs. Mecklenburg County. Noted Oct. 19.

Ga., Augusta—City Comrs. plan rebuilding bridges. N. Wingfield, City Engr.

Fla., Bradentown—Manatee County made plans for Bradentown-Palmetto Bridge over Manatee River. Election soon to vote on bonds. Address County Clk., Bradentown.

Ala., Florence—Lauderdale County receiving bids Dec. 10 for bridge over Little Cypress Creek near Sharp's Mill and one over Second Creek at Sledge Ford. Address County Clk., Florence.

Ala., Montgomery—Montgomery County voted $50,000 bonds for bridge over Tallapoosa River between Montgomery and Elmore Counties. Address County Clk., Montgomery. Noted Oct. 26.

Ala., Montgomery—Central of Georgia R.R. plans bridge over railway tracks at Oakwood Cemetery. C. K. Lawrence, Savannah, Ch. Engr.

Ala., Seale—(Official) Russell County receiving bids Dec. 7 for rein.-con. bridge over Brush Creek on Tuskegee and Columbus Rd. W. S. Keller, Montgomery, State Highway Engr. Noted Oct. 26.

Ky., Covington—Citizens voted $40,000 bonds for bridge over Licking River. Bids soon. H. G. Meiners, City Engr. Noted Sept. 28.

Ky., Richmond—Madison County votes Dec. 7 on $35,000 bonds for bridge across Kentucky River at Clays Ferry. Address County Clk., Richmond. Noted Sept. 14.

Ohio, Cincinnati—Hamilton County made plans for bridge over Mill Creek on North Bend Rd. About $46,000. W. Boeh, Cincinnati, County Surv. Noted Sept. 28.

Ohio, Cincinnati—City making plans for improving Walnut St. from Court to 12th St. by lowering canal bridge to boulevard level and paving roadway, wood block. About $25,000. F. S. Krug, City Engr.

Ohio, Cleveland—Cuyahoga County Comrs. receiving bids Dec. 2 for bridge work per Report No. 3968. R. Hoffman, City Engr.

Ohio, Covington—See item under "Streets and Roads."

Ohio, Springfield—Council passed resolution to repair Dugan St. Bridge. About $8,000 or $10,000. M. J. Bahin, City Engr.

Ohio, Steubenville—Jefferson County Comrs. plan 150-ft. steel bridge. Address County Clk., Steubenville.

Ind., Bloomington—Illinois Central R.R. plans rein.-con. bridge over College Ave., also steel bridge over Walnut St., about $24,000. A. S. Baldwin, Chicago, Ch. Engr.

Ill., Chicago—City soon receives bids for Orleans-Franklin St. Bridge. About $600,000. J. Ericson, City Engr.

Ill., Chicago—Dept. Pub. Wks. and Sanitary Dist. of Chicago plan lift bridge over Chicago River on 12th St. Project requires about 2,500 tons steel and 2,100 sq.yd. creosote blocks, $600,000. Strauss Bascule Bridge Co., 104 South Michigan Ave., Engr.

Ill., Wilmington—City plans bridge over Kankakee River. N. Engels, Superv.

Wis., Beloit—(Official)—City plans rein.-con. bridge on East Grand Ave. over Rock River. G. F. Heebink, City Engr.

Wis., Readstown—City plans bridge across Kickapoo River.

Iowa, Ames—State Highway Comn. plans 3 bridges over Skunk River. D. L. Teal, Ames, County Engr.

Iowa, Centerville—Appanoose County made plans for 3 bridges. A. H. Withington, Centerville, County Engr.

Iowa, Council Bluffs—Pottawatomie County defeated $200,000 bonds for bridge from Council Bluffs to Omaha. Noted July 27.

Iowa, Des Moines—Council passed ordinance for viaduct over High St. K. Kastberg, City Engr.

Iowa, Indianola—Warren County made plans for bridges. F. O. Laing, Indianola, County Engr.

Iowa, Maquoketa—Jackson County made plans for bridges. C. M. Fisher, Maquoketa, County Engr.

Minn., Ivanhoe—Lincoln County making plans for Bridge No. 2353, Marshfield Township. K. A. Hanson, Audr.

Minn., Litchfield—Meeker County receiving bids Dec. 13 for pile trestle bridge 112-ft. long over inlet at Lake Koronis, Sect. 2, Union Grove. A. O. Palmquist, Litchfield, Audr.

Bridges (Continued)

Kan., Ellsworth—(Official)—County receiving bids Dec. 20 for concrete bridge across Smoky Hill River. About $30,000. A. J. Klirgersmith, Ellsworth, County Clk. Noted Oct. 26.

Kan., Olathe—Johnson County receiving bids Dec. 16 for south approach to Burton Bridge, 2 abutments and approach and moving Renner Bridge; also building Friend Bridge. W. J. Moore, Olathe, County Clk.

Mo., Cnillicothe—Livingston County receiving bids Dec. 9 for 7 bridges. J. Broaddus, Chillicothe, Bridge Comr.

Mo., Unionville—Putnam County voted $100,000 bonds for bridges. Address County Clk., Unionville.

Ark., Arkadelphia—Clark County plans steel bridges over Little Missouri River, near Wheelen Springs, Bear Creek, near Okolona, South Fork Creek near Gurdon, Terre Noire Creek at Cypress Ford and Neely Creek, Vierne Township, 6 in all. Address County Clk., Arkadelphia.

Tex., Cleburne—City plans bridge over West Buffalo Creek. J. Buckner, City Engr.

Tex., Waco—City soon lets contracts for bridges and culverts. About $25,000. G. G. Gunley, City Engr. Noted Nov. 16.

Okla., Pawhuska—City receiving bids Dec. 4 for 510-ft. rein.-con. bridge over Bird Creek. About $350,000. J. M. Buckley, City Engr. Noted Aug. 10.

Okla., Tahlequah—Cherokee County defeated $100,000 bridge bonds. Noted Sept. 28.

Wash., Ellensburg—See item under "Streets and Roads."

Wash., Port Townsend—See item under "Streets and Roads."

Wash., Seattle—Bd. Pub. Wks. appropriated $7,500 for temporary draw span in Latona Bridge. F. A. Rapp, Bridge Engr.

Wash., Shelton—See item under "Streets and Roads."

Wash., Tacoma—Pierre County plans Scherzer rolling lift bridge over Hylebs Creek on Lincoln Ave. Rd. About $20,000. W. C. Saleigh, Tacoma, Engr.

Ore., Wasco—Sherman and Gilliam Counties making plans for 2 bridges over John Day River, 2-span, 310-ft. structure on Wasco-Pendleton Rd. at McDonald Ferry and Cottonwood Bridge, 80-ft. span on Condon Rd. Address Sherman County Clk., Moro.

Calif., Yuba City—(Official)—City defeated $300,000 bridge bonds. Noted Oct. 19.

Ont., Toronto—(Official)—County receives bids soon for steel or rein.-con. bridge on Dundas St., Halton County. W. Panton, Milton, County Clk. Bowman & Connor, 31 Queen St., W., Toronto, Consult. Engr. Noted Nov. 2.

B. C., Victoria—Council plans to call election in January to vote on additional appropriation of $8,200 for repairing Rock Bay Bridge. C. H. Rust, City Engr. Noted Apr. 20.

Bids In and Contracts Awarded

R. I., Providence—City rejected bids for railroad trestle at Municipal Wharf, Fields Point. M. H. Bronsdon, City Engr.

Conn., New London—(Official)—New York, New Haven & Hartford Railroad Co. received low bids substructure for Thames River Bridge from Holbrook, Cabot & Rollins Corp., Boston; Foundation Co., 233 Broadway, New York; Union Bridge and Construction Co., Kansas City, Mo.; contract for steel let to AMERICAN BRIDGE CO., 30 Church St., New York. Noted Nov. 16.

N. Y., New York—(Manhattan)—(Official)—Low bidders improving southerly portion Manhattan Bridge were P. T. Cox, 736 Prospect Pl., Brooklyn, $104,806; Snare & Triest Co., Woolworth Bldg., $116,400; T. Dwyer, Broadway and 216th St., $122,866. Noted Nov. 9.

N. J., Jersey City—Hudson County let contract to W. J. COUGHLIN, 665 Newark Ave., for steel bridge with concrete retaining wall at Woodcliff, North Bergen, $51,000. Noted Nov. 2.

Penn., Clifton Heights—County let contract Kents Mill Bridge to WHITAKER & DIEHL, Harrisburg, about $7,886.

Penn., Huntingdon—Huntingdon County let contract bridge in Todd Township to R. R. MYERS, Lewistown.

Penn., Philadelphia—Low bidders repairing Wayne Ave. Bridge were: M. & J. B. McHugh, 892 North Market St., $21,500; W. A. Mundy, 223 South 9th St., $22,506; F. J. Boas, 201 North Broad St., $24,100.

S. C., Bennings—City rejected bids highway bridge or viaduct over railway tracks, as too high.

Ohio, Youngstown—H. B. Reinsayer, Principal Asst. Engr., New York Central R.R., let contract bridge over railway tracks on East Federal St. and Himrod Ave. to HELLER BROS., Youngstown, $110,165. Noted Aug. 3.

Ind., North Vernon—Jennings County let contract approach and fill to Tobias Ford Bridge, Marion Township, to O. N. DAVIS, R. R. No. 1, Paris Crossing.

Wis., Ashland—Ashland County let contract bridge over White River to NORTHWESTERN STEEL CO., Minneapolis, about $5,000.

Iowa, Rock Rapids—Lyon County let contract 80-ft. bridge to WESTERN BRIDGE AND CONSTRUCTION CO., Omaha, about $14,795. Noted Nov. 2.

Minn., Crookston—Polk County let contract 9 bridges to GREAT NORTHERN BRIDGE CO., 635 Lumber Exchange, Minneapolis. Noted Aug. 31.

Kan., Olathe—(Official)—Johnson County let contract steel truss bridge to J. H. COSGROVE & SON, Olathe. About $19,000. Noted Nov. 9.

Kan., Ottawa—(Official)—Franklin County let contract to R. D. LOGAN, Richmond, $6.85 per yd. for concrete abutments for Geiger Bridge across Hickory Creek in Peoria Township. Noted Nov. 2.

Mont., Hamilton—Ravalli County let contract bridge over Bitter Root River to O. E. PEPPARD, Missoula, about $8,000.

Mo., Kansas City—City let contract rein.-con. bridge over Shuttle Creek to P. A. HARTUNG, 200 Bryant Bldg., about $4,000. Noted Nov. 16.

Tex., Coleman—Coleman County Comrs. Court let contract 5 bridges to MISSOURI VALLEY BRIDGE AND IRON CO., $9,500.

Okla., Fairview—Major County let contract bridges across Barney and Sand Creeks to TOPEKA BRIDGE AND IRON CO.

Okla., Pond Creek—(Official)—Chicago, Rock Island & Pacific Railway Co. let contract substructure steel bridge over Salt Fork of Arkansas River at Pond Creek to AMERICAN BRIDGE CO., 208 South La Salle St., Chicago, superstructure to be built by company forces. About $125,000. Noted Nov. 9.

Okla., Tecumseh—Potawatomie County rejected bids for 2 bridges and culvert. Noted Oct. 26.

Okla., Tulsa—Tulsa County Comrs. let contract approaches to Arkansas River Bridge No. 150 to J. LANGTRY, Tulsa, $31,082. Noted Oct. 26.

Calif., San Anselmo—City rejected bids for Lansdale Bridge. Noted Oct. 5.

Calif., Santa Ana—(Official)—County rejected bids for concrete bridge at Balboa Palisades. W. B. Williams, Santa Ana, County Clk. Noted Nov. 2.

Calif., Santa Barbara—W. M. Ledbetter, Pacific Electric Bldg., Los Angeles, submitted low bid for concrete arch bridge across Gaviota Creek on State Highway, Fourth Rd. Dist., at $9,450.

WATER-WORKS

Proposed Work

Mass., Lenox—Pub. Ser. Comn. voted to build 52,000,000-gal. reservoir below present Root Reservoir on Richmond Mountain. About $87,000.

Mass., Springfield—City plans $100,000 bond issue for water-works. F. E. Stacy, Mayor.

Conn., Watertown—City plans improving water system. E. W. Wheeler, Supt.

N. Y., Auburn—(Official)—City receives bids about January for filter plant. About $200,000. J. W. Askerman, Supt. Hazen & Whipple, Engr. Noted Nov. 16.

N. Y., Canton—City election Nov. 23 to vote on $180,000 bonds for gravity system waterworks. L. R. Smith, Supt. Noted Sept. 28.

N. Y., Lockport—City plans pipe line to carry city water to site of proposed tuberculosis hospital. About $10,000. H. L. Lyon, Deputy Comr. and Supt.

N. Y., Rome—City plans water main in Francis St. R. Armstron, Supt.

N. Y., Troy—Council passed ordinance for water mains in portion Brunswick Ave. J. M. Diven, Supt.

N. J., Bridgeton—(Official)—City receiving bids Dec. 5 for furnishing all materials and labor, making all excavations and backfilling and building rein.-con. coagulation basin gate chambers complete, including furnishing and placing sluice gates, special fittings and pipe. J. B. Jones, City Clk. (See adv.)

N. J. Jersey City—City Comn. receiving bids Nov 28 water gate boxes and covers, manhole heads and covers, special castings, bends, branches, etc. M. I. Fagan, City Clk.

N. J., Newark—Bd. Wks. plans to spend about $320,000 for remaining 40% of unmetered water connections throughout city. G. Sanzenbacher, Supt. and Engr.

Penn., Erie—Bd. Water Comrs. receiving bids Dec. 6 for 20,000,000-gal. pumping engine. Chester & Fleming, Pittsburgh, Engr. Noted July 27.

Penn., Kennett Square—Borough soon receives bids for improving water system. W. Vandever, Supt.

Penn., Monaca—M. Baker, Boro. Engr., made plans for improving reservoir on Monaca Heights. Noted May 25.

Penn., Philadelphia—Bureau of Water plans following improvements: Replacing Fairmount Dam, $450,000; street-flushing connection, $125,000; extending and improving Delaware River Works to include new pumping station, new mains and filters at Torresdale, $5,100,000; extending water system in northeast section, $1,250,000; new pipe line extensions, $100,000. A. J. Fuller, Supt.

Penn., Seward—(Official)—Citizens defeated bonds for reservoir and pipe line. Noted Nov. 9.

Penn., Topton—Borough defeated $16,000 waterworks bonds. Noted Aug. 31.

S. C., Bishopville—City votes Dec. 12 on $10,000 bonds for improving and extending water system. S. R. Sutton, Supt.

Fla., New Smyrna—City plans water system.

La., New Orleans—See item under "Sewers."

Ky., Murray—Citizens voted $20,000 bonds for water system and electric-light plant. X. A Kramer, Magnolia, Engr. Noted Mar. 2.

Ky., Olive Hill—City plans to install water and light systems. About $10,000.

Ohio, Cleveland—City receiving bids Dec. for rebuilding clear water basin of Division Ave filter plant. About $100,000. C. F. Schultz, Comr. and Supt. Noted Nov. 9.

Ohio, Dayton—City sold $70,000 water-works bonds. H. E. Collins, Supt. Noted Sept. 7.

Ohio, Fostoria—City plans to spend about $4,000 for improving water-works. Noted June 1

Ohio, Greenville—City has $350,000 available for water system. Contracts for this amount will soon be let. J. P. Lucas, Supt.

Ohio, Lima—(Official)—City receiving bids Dec. 14 for improving water system. Contract No. 3 About $500,000. R. W. Pratt, Hippodrome Bldg., Cleveland, and W. G. Clark, Spitzer Bldg., Toledo, Consult. Engr. Noted Oct. 26. (See adv.)

Ohio, Lorain—Council passed ordinance for water main in portion Colorado Ave. L. M. Moore, Mayor.

Ohio, Lowellville—City to sell $25,000 waterworks bonds Dec. 11. J. F. Lash, Clk.

Ohio, Piqua—Citizens defeated $380,000 water bonds. Noted Oct. 5.

Ohio, Ravenna—City to let contract for 2,000,000-gal. filter plant in about 2 months. About $125,000. Noted Nov. 9.

Ohio, Wooster—City voted $80,000 bonds for water system. Noted Nov. 9.

Ind., Connersville—City plans water system on East Side. J. C. Massey, Supt.

Mich., Mendon—City election Dec. 4 to vote on water-works bonds. A. H. Smith Co., Toledo, Consult. Engr. Noted Nov. 2.

Mich., Wyandotte—City Comn. approved plans for filter plant. A. S. McClenahen, Supt.

Ill., Berwyn—City receiving bids about Dec. 16 for water main in 22nd St., 3 mi. of 6-in. main B. Strutzenburg, Engr.

Ill., Chester—Chester Light and Water Co. plans purification plant.

Ill., Fisher—Village receives bids about Feb. 1 for 20,000 ft. of 4-ft. 8-in. trench for 6-, 8- and 4-in. Class B water mains, one 10-in. well, brick pumping station, two pressure tanks and 1 steam pump for filter plant. About $26,100. J. E Pickens, Kankakee, Engr. Noted Nov. 2.

Ill., Freeport—Water Com. recommended extending water main along Empire and Blackhawk St. and Highland Ave.

Ill., Rontoul—City defeated $6,500 water bonds

Ill., Wilmington—City receiving bids Nov. 2 for well. L. Monsen, City Clk. Noted Nov. 16.

Wis., Lancaster—Chicago Bridge and Iron Works, Chicago, submitted estimate for 200,000-gal. tank to cost $12,800; 250,000-gal. tank at $15,600. J. H. Stephens, Supt. and Engr. Water Wks.

Wis., Sturgeon Bay—City to vote Mar. 1 on $35,000 water bonds. Noted May 18.

Iowa, Carroll—City plans to extend 4- and 6-in. water mains. G. C. Belter, Supt.

Iowa, Grinnell—(Official)—City election Dec. 6 to vote on $10,000 water bonds. T. A. Crosby, City Mgr. W. A. Hendry, Supt. Noted Nov. 2.

Iowa, Imogene—City plans water and sewer systems.

Iowa, Waterloo—Water Trustees authorized 12-in. main on portion Conger Ave., Chautauqua Park and across river to supply residents of Sans Souci, also 1,000 ft. of 6-in main on Gates St., San Souci, and 6-in. main portion Sullivan St. J. P. Perry, Supt. Noted July 27.

Minn., Duluth—Duluth Water and Light Dept. soon receives bids for pumping station at Lakewood. L. Merritt, Comr.

Minn., Gaylord—See item under "Sewers."

Minn., Glencoe—City voted $250,000 water bonds.

Minn., Ironton—City voted $15,000 water bonds. E. A. Burns, Clk.

N. D., Grand Forks—City voted $25,000 for filter plant. J. J. Smith, Supt. Noted Nov. 2.

N. D., Hankinson—City receiving bids Dec. 1 for water system. About $20,000. J. F. Druar, 312 Commercial Bldg., St. Paul, Engr. Noted Oct. 19.

Ark., England—Stuttgart Public Service Co., Stuttgart, has 50-year franchise to install water system.

Tex., Newcastle—City plans voting on bonds for water system.

Tex., Port Arthur—City voted $80,000 water bonds. D. K. Miller, Supt. Noted Nov. 2.

Okla., Beaver—City election Dec. 11 to vote on $17,000 water-works bonds.

Okla., Mangum—City election Nov. 29 to vote on $15,000 water-works bonds.

Okla., Marlow—City receiving bids Dec. 4 for water and sewer systems. About $50,000. Benham Engineering Co., Colcord Bldg., Oklahom, Engr. Noted Oct. 26.

Water-Works (Continued)

Okla., Oklahoma—City receiving bids Dec. 5 for water system. Benham Engineering Co., Colcord Bldg., Engr. Noted Mar. 23.

Okla., Okmulgee—City soon receives bids for water system. About $25,000. M. N. Coles, City Engr. Noted Oct. 5.

Okla., Wilburton—City voted $55,000 water bonds. McIntosh-Walton Engineering Co., Oklahoma, Engr. Noted Oct. 26.

Idaho, Fayette—(Official)—City votes Dec. 2 on $8,000 water bonds. Noted Nov. 2.

Idaho, Grace—Citizens voted $16,000 bonds to purchase and improve water system.

Wash., Seattle—A. H. Dimock, City Engr., submitted report to Bd. Pub. Wks. for water mains and sewers in 40th Ave., N. About $18,500.

Calif., Coalinga—City voted $100,000 water bonds. F. G. Dessery, C. E. Central Bldg., Los Angeles, Engr. Noted Nov. 2.

Calif., Los Angeles—(Hollywood)—City voted $1,020,000 water bonds. W. E. Wern, Los Angeles, Mgr. Noted Nov. 2.

Calif., Redding—City plans new water system.

Ont., Geneva—City plans to add another unit to slow sand filter plant.

Ont., Sault Ste. Marie—Council plans to install 2 motor-driven pumps of 5,000,000 gal. capacity each.

B. C., Salmon Arm—City sold $42,500 water-works bonds. F. Wilcox, City Clk.

Bids In and Contracts Awarded

Mass., Boston—Bd. Pub. Wks. let contract water mains in portion Washington and Dacia St. to J. GUARINO & SON, 43 Brook Ave., Roxbury.

N. Y., New York—(Manhattan)—(Official)—Boro. let contract for 12-in. steel or w.-i. water main and appurtenances on Queensboro Bridge, also hauling and laying connecting c.-i. mains in boroughs and Manhattan and Queens to T. CRIMMINS CONSTRUCTION CO., 440 East 69th St., $33,166. Noted Nov. 16.

N. Y., New York—(Official)—Dept. Water Supply, Gas and Electricity let contract furnishing, delivering, unloading, stacking and storing c.-i. pipe, special and valve-box castings, valves and double-nozzle hydrants to R. D. WOOD & CO., $22,726, Sect. 1; J. FOX & CO., 253 Broadway, $23,164, Sect. 2. Noted Nov. 9.

N. J., Newark—City let contract water pipe to WARREN FOUNDRY AND MACHINE CO., 11 Broadway, New York, about $73,867. Noted Sept. 28.

N. C., Tarboro—(Official)—City let contract water mains to J. W. PIERCE, Durham. Noted Nov. 9.

Ohio, Salem—City received low bids reservoir at pumping station from F. L. Stoffer, Washingtonville, about $17,000. Noted Nov. 2.

Ohio, Zanesville—City let contract pumping station, pump well, suction well intake and force main to DUNZWEILER BROS., Zanesville. Noted Nov. 16.

Ind., Earl Park—City let contract water system to NATIONAL CO., South Bend. About $6,000.

Mich., Pontiac—City received bids for new air compressor at water-works from Chicago Pneumatic Tool Co., Chicago, $7,489; National Supply Co., Toledo, $14,300 and $9,900; Worthington Pump and Machinery Corporation, New York, $9,555.

Ill., Aurora—(Official)—City let contract rein.-con. reservoir and appurtenances to LEYDEN-ORTSEIFEN CO., Monadnock Bldg., Chicago, $15,490. Noted Oct. 26.

Wis., Oshkosh—Bd. Pub. Wks. let contract water tower to LARSON CONSTRUCTION CO., about $14,030. Noted Oct. 26.

Wis., Prescott—Village let contract 1,000-ft. 4-in. water main, 3 hydrants and 2 valves to UNION MACHINE CO., 183 University Ave., St. Paul, Minn. Noted Oct. 26.

Minn., Comfrey—Village let contract well to A. KIEL, Springfield.

Minn., Granite Falls—Tubercular Sanatorium let contract filter plant to C. ASH & SONS, 202 Maria Ave., Granite Falls. About $13,000.

Minn., Waseca—Water Bd. let contract triplex power pump and 2 motors to J. F. MUIR & CO., 2395 University Ave., St. Paul.

Kan., Argonia—(Official)—City let contract water system to BICKEL CO., Interstate Bldg., Kansas City, Mo., $15,112; tank and tower to DES MOINES BRIDGE AND IRON CO., Des Moines, Iowa, $4,030. Noted Nov. 9.

Mo., Rockport—City let contract water system to H. P. KOEHLER & CO., 220 Produce Bldg., Kansas City, about $8,400. Noted Nov. 16.

Tex., Cooledge—City let contract distributing system to DALTON-CAMPBELL CO., Dallas, $11,678; tower and tank to PITTSBURGH-DES MOINES STEEL CO., Dallas, $4,850. Noted Oct. 19.

Tex., Hamlin—Council let contract water and distributing system to W. E. HENDERSON, Sweetwater, $31,400. Noted Sept. 21.

Tex., Sherman—(Official)—City to build 1,300,000-gal. reservoir at Fairview Water Station, North Sherman, by city forces. About $15,000. Noted Nov. 2.

Wash., Puyallup—City let contract 96 tons c.-i. pipe to HAMMOND-BYRD IRON CO., Birmingham, Ala., $35.96 per ton. Noted Oct. 26.

Calif., Los Angeles—Los Angeles Water Wks. Dist. No. 3 let contract gate valves to H. R. BOYNTON CO.

Calif., Merced—Crocker-Huffman Land and Water Co. let contract 300,000-gal. steel tank to PITTSBURGH-DES MOINES STEEL CO. Noted Nov. 9.

N. B., St. John—(Official)—City let contract 5,000 ft. 24-in. and 1,600 ft. 8-in. c.-i. pipe to CANADA FOUNDRY CO., LTD., Three Rivers, Que., $24,000. Noted Nov. 9.

Que., Montreal—City let contract water meters to F. HANKIN & CO., 20 St. Nickolas St., about $25,092. Noted Jan. 6.

SEWERS

Proposed Work

N. Y., Albany—City plans sewers in Bradford and Ontario St. F. R. Lanagan, City Engr.

N. Y., Auburn—City plans storm-water sewers. T. Bergen, City Engr.

N. Y., Larchmont—(Official)—Village Bd. Trustees receiving bids Dec. 4 for system of sewers. E. D. Wakeman, Clk. L. E. Van Etten, 12-14 Lawton St., New Rochelle, Engr. (See adv.)

N. Y., New York—(Queens)—M. E. Connolly, Boro. Pres., Queens Subway Bldg., 68 Hunters Point Ave., Long Island City, receiving bids Dec. 1 for sewers and appurtenances in portions Decatur, Butler, Curtis, Ericcson, Gilmore, McPherson and Chaffee St., Edison Pl., Grand and Hull Ave., 2nd Ward; Nott Ave., 1st Ward; Robinson and Phillips Ave. and Narcissus St., 3rd Ward; Forest Pkway, Ferry, Ashland, Chestnut St., Kimball, Herald, Atlantic, Benedict, Hatch and Jamaica Ave., 4th Ward.

N. Y., Syracuse—City plans 18-in. sewer from Onondaga Creek to Sand St. and 15-in. sewer in Spencer St. H. A. Allen, City Engr.

N. J., Glassboro—City making plans for sewage-disposal plant. DeVore & McGormley, Toledo, Engr.

N. J., Hammonton—City making plans for sewers, about $25,000. Remington & Vosburg, Camden, Engr.

N. J., Palisades Park—(Official)—Mayor and Council, Borough Hall, receiving bids Nov. 28 for about 12,973 ft. of 8-in. sewer, 1,963 ft. of 10-in. sewer, 82 ft. of 12-in. sewer, 298 ft. of 16- and 20-in. c.-i. pipe sewer, 62 manholes and siphon under Northern R.R. E. R. Davis, Clk. Lozier, Zabriskie & Van Keuren, Broad Ave. and Central Blvd., Engr. (See adv.)

N. J., Passaic—Council passed ordinance for sewer in Brook Ave. C. R. Wise, City Engr.

N. J., Rahway—Bd. Health authorizes sewers in portion East Milton Ave. F. Marsh, City Engr.

Penn., Charleroi—City plans sewage works. H. Brown, City Engr.

Penn., College Hill—(Easton P. O.)—Borough voted $30,000 for trunk lines of sanitary sewer system.

Penn., Lebanon—City plans storm sewer, about $48,000. P. L. Volcker, Engr.

Penn., McKeesport—City making plans for sewer in Fremont Ave. J. M. Smith, People's Bank Bldg., Engr.

Penn., Waynesboro—(Official)—City voted $28,000 bonds for sewers. Noted Oct. 5.

Penn., Williamsport—F. Gannett, Harrisburg, Engr., submitted report to Council estimating cost of installing sewage plant, sewers, filter beds and pumping stations at $304,000.

Penn., Winton—Borough receiving bids Nov. 28 for sanitary sewer system. M. E. Judge, Church St., Jessup, Secy. Council. W. A. Taylor, Borough Bldg., Olyphant, Engr.

La., New Orleans—City receives bids Dec. 21 for 3 12-ft. steel discharge pipes for drainage pumps, Contract 78D. W. J. Hardee, City Engr.

La., New Orleans—Sewerage and Water Bd. receiving bids Nov. 29 for sewers and water-works. G. G. Earl, Gen. Supt.

Ky., Louisville—Bd. Pub. Wks. receiving bids Nov. 25 for sewer in portion Preston St. About $30,000. R. Burks, City Engr. Noted Oct. 26.

Ohio, Barberton—City plans sewage works near the junction of Wolf Creek and Tuscarawas River. About $150,000. H. W. Alcorn, City Engr.

Ohio, Cleveland—City made plans for sewage-disposal system, 1 set plans provides for 1 main plant south of city, about $150,000, and other for 3 small plants in different parts of city, about $166,000. R. W. Pratt, Hippodrome Bldg., Engr. Noted Nov. 16.

Ohio, Elyria—City plans sewage works. C. M. Theobald, City Engr.

Ohio, Findlay—City plans sewer in first alley east of Main St. U. K. Stringfellow, City Engr.

Ohio, Hamilton—City defeated $100,000 bonds for storm and sanitary sewers. F. E. Weaver, City Engr. Noted Oct. 26.

Ohio, Newark—City soon lets contract for sewer in portion West Main St. C. H. Wells, City Engr. Noted Nov. 2.

Ohio, Norwood—City making plans for sewer in Station Ave. J. G. Schmidt, City Engr.

Ohio, West Park—Village receiving bids Nov. 27 for sewer in Lorain Ave. Fred Feuchter, Village Clk.

Ohio, West Park—City receiving bids Dec. 19 for purchase of $20,000 sewer bonds. F. Feuchter, Clk.

Ohio, Wilmington—City plans sewage works.

Ohio, Worthington—Jennings, Lawrence & Lindsay, Engr., Columbus, submitted report to Council estimating cost of sewers, including disposal plant and main trunk sewer line at $120,000.

Ohio, Youngstown—City plans sewer in Shady Run Sewer Dist. F. M. Lillie, City Engr.

Ind., East Chicago—Bd. Pub. Wks. plans 2-mi. vitrified sewer pipe. C. K. Wallace, City Hall, Engr.

Mich., Flint—City making plans for West Side sewer, 17,000 ft. rein.-con. pipe. About $400,000. E. C. Shoecraft, City Engr.

Mich., Lansing—Plans made for Smith, Barnes and Mt. Hope sewers. About $9,250. E. G. Eddy, City Engr.

Mich., Plymouth—City to receive bids in spring for sanitary sewer system and disposal plant. About $30,000. Head & Decker, U. of M., Ann Arbor, Engr. Noted Sept. 28.

Mich., Sault Ste Marie—City making plans for sewers in portion Portage Ave., Magazine and Ashmun St. R. A. Fredericks, City Engr.

Ill., Rock Island—City plans sewage works and sewer in Southwest Dist. W. Treichler, City Engr.

Ill., Wilmington—City plans sanitary and storm sewers. About $100,000.

Wis., Lake Mills—(Official)—City receives bids about April for septic tanks. V. S. Ravenhill, City Clk. Noted Nov. 9.

Wis., Ripon—Bd. Pub. Wks. recommended that Council install septic tanks for new disposal system.

Iowa, Imogene—See item under "Water-Works."

Iowa, Mason City—City to vote on sewer proposition. F. P. Wilson, City Engr.

Minn., Duluth—City plans sewers in portion of 6th Alley and 101st St.

Minn., Red Wing—City plans sewer in Buchanan St. William Geisheker, City Engr.

Minn., St. Paul—City receiving bids Nov. 27 for sanitary sewer in portion Hythe and George St. O. Claussen, City Engr.

S. D., Aberdeen—City defeated $200,000 sewer bonds. F. Le Cocq, City Engr.

Mo., Sikeston—(Official)—City voted $5,000 sewer bonds.

Ark., Little Rock—City plans sanitary sewer system in Impvt. Dist. No. 82. Ford & MacCrea, Little Rock, Engr.

Tex., Bastrop—City soon lets contract for sewage plant. Hall Construction Co., Austin, Engr.

Tex., Bryan—Citizens voted $10,000 bonds for sewage-works. Noted Sept. 21.

Tex., Frost—(Official)—City receives bids about Dec. 1 for sewer system. Noted Nov. 9.

Tex., Lockhart—City receiving bids Nov. 28 for sewer system and disposal plant. H. E. Elrod, Dallas, Consult. Engr. Noted Nov. 2.

Tex., Port Arthur—Citizens voted $80,000 sewer bonds. G. M. Craig, Engr. Noted Sept. 7.

Okla., Marlow—See item under "Water-Works."

Okla., Kusa—Council passed ordinance to issue $25,000 bonds for sewers.

Okla., Wilburton—Citizens voted $20,000 sewer bonds. Mackintosh-Walton Co., Oklahoma, Engr.

Utah, Ogden—J. E. Tracy, City Engr., recommended that City Comn. rebuild sewer system.

Wash., Seattle—See item under "Water-Works."

Wash., Sumas—City plans 6-in. tile sewer in Block 6, Johnson's 3rd Addition. E. A. Brown, City Engr.

Calif., Los Angeles—Council passed ordinance for sewer in portion Echo Park Ave. H. Hamlin, City Engr.

Calif., Ventura—City making plans for sewage work. A. Waud, City Engr.

Bids In and Contracts Awarded

Maine, Westbrook—City to install 6- and 10-in. sewer by day labor.

Conn., West Hartford—City let contract sewer in Walbridge Rd., Boulevard and Ellsworth St. to L. PETROSSI, 39 Woodbridge St., Hartford.

N. Y., New York—(Manhattan)—(Official)—Boro. let contract extension sewer in 172nd St. between Ft. Washington Ave. and Broadway to P. J. DUFFY. Noted Nov. 2.

N. Y., New York—(Manhattan)—(Official)—Boro. let contract sewer in 188th St. to KNIGHT & DEMICCO; 189th St., to P. J. DUFFY. Noted Nov. 2.

N. J., Lyndhurst—Bd. Comrs. Union Township let contract sewer system and disposal plant to JANARONE CONTRACTING CO., 225 Passaic Ave., Belleville, about $277,478.

Ohio, Greenville—(Official)—City let contract to H. E. MILLER, Columbus, for storm sewers in various streets.

Ohio, Miamisburg—City let contract storm sewer in 9th St. to L. A. DILLTON, 147 North F St., Hamilton.

Ohio, Youngstown—(Official)—City let contract sewer in McGuffey St. to E. DIORIO, Court St., $5,711.

Sewers (Continued)

Ohio, Youngstown—City let contract to E. CONRICOTE, $4,590, for Indianola Ave. Sewer.

Ind., Kokomo—(Official)—Bd. Pub. Wks. let contract sewers in Loretta St. and Virginia Ave. to O. B. PETERS, Kokomo, about $4,647. Noted Nov. 2.

Wis., Milwaukee—(Official)—Sewerage Comn. let contract sewer work, Contract No. 14, to H. HOHENSEE, 905 27th St., Milwaukee.

Minn., Eveleth—City let contract storm sewers to LAWRENCE-McCANN CO., $25,285; pipe to T. F. LYNCH, $4,289.

Minn., Gaylord—City let contract extending water and sewer systems to GAYLORD HARDWARE CO., Gaylord, about $45,490. Noted Oct. 26.

Minn., Lake Crystal—City rejected bids for sewer system. J. F. Druar, Commercial Bldg., Engr.

Okla., Edmond—City let contract sewers to M. S. SHERMAN MACHINE AND IRON WORKS CO., Oklahoma, about $7,787. Noted Aug. 3.

Okla., Tulsa—City let contract sanitary submain sewer on Brady St. to PEASE & SON, about $7,000.

Ore., Portland—City let contract east side intercepting sewer in Washington St. to R. LEE.

Calif., San Francisco—Tibbetts-Pacific Co., San Francisco, submitted low bid for sewers in Somerset St., $17,842.

Ont., Toronto—City let contract sewers to FUSSELL-McREYNOLDS CO., 2014 St. Clair Ave., W., about $41,000.

GARBAGE

Proposed Work

Penn., Rankin—Citizens voted $45,000 bonds for incinerator and collection of garbage.

Ind., Brazil—Council plans crematory, F. Wilson, City Engr.

Tex., Ballinger—City made plans for incinerator plant. Bids soon. E. R. Walker, City Health Officer. Noted Oct. 19.

Tex., Lockhart—City receiving bids Nov. 28 for garbage incinerator. Noted Sept. 28.

Ore., Portland—A. Daly, Comr. Dept. Pub. Utilities, recommended that city call election next June to vote on $75,000 bonds for garbage collection system.

Bids In and Contracts Awarded

Penn., Philadelphia—Dept. Pub. Wks. received bids Nov. 13 (a) collection of garbage during 1917, (b) cleaning streets during 1917, (c) collection of ashes during 1917 from Penn Reduction Co., Bulletin Bldg., (a) $432,000; J. A. Mullen, 5512 Vine St., (b) Dist. 1A, $133,700, (c) Dist. 1A, $59,300; J. Irvin, 25th and Moore St., (b) Dist. 1B, $184,300, (c) Dist. 1B, $93,300; E. H. Vare, Lincoln Bldg., (b) Dist. 2, $369,000,, Dist. 3, $434,900, (c) Dist. 2, $99,900, Dist. 3, $114,900; J. D. Dorney, 1204 East Montgomery Ave., (b) Dist. 4A, $193,000, (c) Dist. 4A, $89,800; H. C. Ruch, 2212 East Susquehanna Ave., (b) Dist. 4B, $136,500; F. Curran, 3023 Richmond St., $328,000; Estate David McMann, Main and Chelten Ave., (b) Dist. 6, $233,500; (c) Dist. 6, $128,800; Fletcher Corporation, Pennsylvania Bldg., $79,900; R. J. & A. Peoples, 25th and Callowhill St., (c) Dist. 5, $108,000.

Mich., Menominee—Common Council let contract for incinerator to H. H. WAGONER, $6,500. Noted Aug. 17.

Tex., Abilene—City let contract incinerator to J. W. STOKES, Houston, $6,000.

STREETS AND ROADS

Proposed Work

Conn., Hartford—State Highway Comn. receiving bids Nov. 27 for 25,282 lin ft. native stone macadam on Long Ridge Rd., Stamford Township.

N. Y., Chatham—County soon lets contract for paving 5 mi. road. C. W. Van Hosen, Austerlitz, Superv.

N. Y., Hinsdale—City defeated $12,000 road and bridge bonds.

N. Y., Islip—Islip, Brentwood and Bay Shore Villages voted $26,000 road bonds. Adress Town Clk., Islip.

N. Y., Mt. Sinai—Village plans to pave Main St., concrete, about $5,000.

N. Y., Riverhead—Council plans to extend Averill Ave., about $75,000; also grade, sidewalk and sewer Ohio St., about $11,500. F. T. Elwood, City Engr.

N. J., Elizabeth—City plans to pave Caldwell Pl. and Front St., granite block, and Cross Ave., asphalt. T. E. Collins, City Engr.

N. J., Flemington—Town received bids for 15,600 sq.yd. paving on Flemington-Sand Brook Rd. from Reed & Co., Trenton, $15,447; J. I. Demarest, Woodbridge, $18,292. L. P. Cruse, Clk.

N. J., Franklin—Borough voted $20,000 street improvement bonds.

N. J., Jersey City—Bd. Comrs. receiving bids Nov. 28 for paving portion Stegman St., brick. C. A. Van Keuren, City Engr.

N. J., Jersey City—Bd. Freeholders Hudson County plans $30,000 bond issue for improving Paterson Plank Rd., amiesite; also $12,000 for Jackson St. and Lincoln Highway bridges. Address Clk., Jersey City.

N. J., Keyport—G. D. Cooper, Engr., 120 Broad St., Red Bank, receiving bids Jan. 3 for warrenite paving. About $65,000.

N. J., Newark—Bd. St. and Water Comrs. plans to pave portions Chelsea, Brookdale and Sussex Ave., Cliff, Mead, South Tyler and Amsterdam St. and Hinsdale Pl. M. R. Sherrard, City Engr.

N. J., Salem—Bd. Freeholders Salem County receiving bids Nov. 27 for second section Malaga-Pennsgrove Rd. I. C. Smashey, Salem, Clk. Noted Nov. 2.

N. J., Trenton—State voted $7,000,000 highway bonds. Noted Oct. 26.

N. J., Wallpack Centre—Town Rd. Comn. plans to spend $10,000 for new road.

Penn., Carnegie—Borough voted $100,000 for street improvements.

Penn., Monessen—City voted $110,000 bonds for street improvements. A. W. Johns, City Engr.

Penn., Scranton—City plans to grade, pave and curb portion Monsey Ave., asphalt, about $18,215. W. Schunk, City Engr.

Penn., South Bethlehem—City voted $10,000 paving bonds. R. M. Brady, City Engr. Noted Sept. 28.

Md., Baltimore—State Highway Comn. making surveys for National Defense Highway from Camp Parole to Blandensburg, about 25 mi. C. R. Wilson, Secy.

Md., Baltimore—City receiving bids Nov. 29 for cement footways around city property, group 9. R. M. Cooksey, Engr.

W. Va., Fayetteville—Fayette County to let contract for improving Fayette Giles-Kanawha Turnpike in spring. J. K. McGrath, Fayetteville, Rd. Engr.

S. C., Anderson—Charleston & Western Carolina Ry. plans 4,000 sq yd. brick paving between West Market St. and freight depot. About $8,000. A. W. Anderson, Augusta, Gen. Mgr.

Ga., Cartersville—(Official)—Barton County does not plan election to vote on $60,000 road bonds. Noted Nov. 9.

Ala., Bay Minette—Baldwin County receiving bids Dec. 5 for grading, draining and surfacing with sand clay portion State Trunk Rd. No. 12. About $5,000. W. S. Keller, Montgomery, State Highway Engr.

Ala., Luverne—Crenshaw County receiving bids Dec. 16 for improving 2 mi. Patsburg and Luverne Rd. and 3 mi. Honoraville Rd. J. M. Garrett, Luverne, County Engr.

Miss., Hattiesburg—Forest County plans $100,000 bond issue for road work; also $50,000 for roads in Beats Nos. 2, 4 and 5. Address County Clk., Hattiesburg.

Miss., Lexington—Highway Comrs. Holmes County, Beat No. 4, Thornton, receiving bids Nov. 25 for 4.2 mi. road. Snowden & Houser, Durant, Engr.

Miss., Oxford—Lafayette County, Taylor Dist., receiving bids Dec. 1 for 14 mi. sand clay roads. Snowden & Houser, Jackson, Engr. Noted Oct. 26.

La., Colfax—Grant Parish, Rd. Dist. No. 8, plans election to vote on $300,000 road bonds, $120,000 to be used for 33 mi. Jefferson Highway. Address Police Jury, Colfax.

La., Mansfield—City made plans for 21,000 sq.yd. paving and 8,000 sq.yd. gravel with binder.

La., Monroe—Ouachita Parish, Dist. No. 2, receiving bids Dec. 18 for grading, draining and surfacing with gravel portions Monroe Loop, Monroe-Farmville, Morehouse Parish, Monroe-Bastrop and Old Vicksburg Rd. J. W. Billingsley, Monroe, Consult. Engr.

Tenn., Lewisburg—(Official)—Marshall County, Byhalia Separate Rd. Dist., did not vote $35,000 road bonds. Noted Nov. 9.

Tenn., Manchester—Coffee County defeated $250,000 road bonds. Noted Oct. 12.

Tenn., Memphis—Shelby County receiving bids Dec. 1 for 10 mi. gravel road across northeast corner De Soto County. About $20,000. A. W. McCleskey, 11 South 2nd St., Memphis, Engr. Noted Nov. 9.

Ky., Hickman—Citizens defeated $20,000 street-improvement bonds. Noted Sept. 28.

Ky., Paducah—McCracken County receives bids next spring for 128 mi. road. About $200,000. J. R. Thompson, Paducah, County Engr. Noted Nov. 16.

Ky., Versailles—Woodford County plans to rebuild 10 mi. Versailles and Harrodsburg Rd., 2 mi. Versailles and Lexington Rd., 5 mi. Versailles and Georgetown Rd. and 3 mi. Versailles and Frankfort Rd. Address County Clk., Versailles.

Ky., Whitesburg—(Official)—Citizens defeated $5,000 paving bonds. Noted Oct. 12.

Ohio, Chardon—Geauga County, Russell, Newbury and Burton Township and Burton Village voted $26,000 road bonds. Address County Clk., Chardon.

Ohio, Cleveland—City plans to widen West 3rd St. R. Hoffman, City Engr.

Ohio, Covington—Citizens voted $500,000 bonds for extending Holm St., Eastern and Hermes Ave., Willow Run Blvd., improving Pike St. and building traffic bridge in connection with new emergency water main, improving thoroughfares in Latonia and new Holmesdale School.

Ohio, Dover—Citizens voted $50,000 paving bonds. G. E. Arnold, City Engr. Noted Oct. 1

Ohio, Greenville—City plans to pave 2½ mi. on Union and West St., also 2,000 ft. concrete curb and gutter. R. Horn, City Engr.

Ohio, North Lewisburgh—Village defeated $10,000 bonds for street improvements. Noted Oct. 2

Ohio, Steubensville—G. W. Borden, Dir. Pub. Ser., receiving bids Nov. 29 for grading filter plant grounds.

Ohio, Troy—City plans to improve portions East and West 23rd, 32nd and 7th St. and Elyria Ave. M. A. Gantz, City Engr.

Ohio, Upper Sandusky—City defeated $80,000 street paving bonds. Noted Oct. 5.

Ohio, Urbana—City defeated $10,000 street-improvement bonds.

Ohio, Washington Court House—City plans to pave East St. B. R. Jacobs, City Engr.

Ind., Connersville—Fayette County receiving bids Dec. 4 for gravel road in Posey Township G. Zell, Connersville, Audr.

Ind., Kokomo—Howard County receiving bids Dec. 5 for stone road in Howard Township. W. L. Benson, Kokomo, Audr.

Ind., Monticello—White County receiving bids Dec. 5 for gravel road in Prairie Township. A. G. Fisher, Monticello, Audr.

Ind., Spencer—Owen County receiving bids Dec. 4 for stone road in Marion Township. S. M Royer, Spencer, Audr.

Mich., Cadillac—City plans to pave portion Marble St., concrete, Division and Cass St., brick. G. Johnson, City Clk.

Mich., Cassopolis—(Official)—Cass County defeated road bonds. Noted Nov. 9.

Mich., Montague—Grant Township, Hart, voted $10,000 bonds for its share of highway from Montague to New Era. Address County Clk., Muskegon. Noted Nov. 9.

Mich., Ontonagon—Ontonagon County voted $195,000 road bonds. Address County Clk., Ontonagon. Noted Sept. 14.

Mich., Zeeland—Citizens voted bonds for paving Main St. L. A. Boulay Co., 1248-51 Nicholas Bldg., Toledo, Engr. Noted Nov. 2.

Ill., Belleville—St. Clair County defeated $1,500,000 road bonds. D. O. Thomas, Belleville, County Supt. Highways. Noted Oct. 12.

Ill., Joliet—City plans to pave Wilcox St. About $28,639. C. D. O'Callahan, City Engr.

Ill., Joliet—Will County defeated $1,500,000 road bonds.

Ill., Peoria—City plans to pave portion Pecan St., about $9,585. L. D. Jeffries, City Engr.

Wis., La Crosse—Bd. Pub. Wks. plans to spend $125,000 for paving. G. Bradish, City Engr.

Iowa, Des Moines—City making surveys for Keosauqua Way from 7th and Chestnut St. to 20th and Forest St. K. Kastberg, City Engr.

Iowa, Des Moines—Council passed resolution to pave portions 6th Ave. K. Kastberg, City Engr.

Kan., Hutchinson—City plans to pave First St. G. L. McLane, City Engr.

Neb., Columbus—L. F. Gottschlag, Engr., estimates cost of paving Dist. No. 1 at $100,268.

Mont., Anaconda—Deerlodge County made surveys for highway from Anaconda to Bitter Root Valley. Address County Clk., Anaconda.

Mont., Butte—State Highway Comn. plans to improve Yellowstone Trail between Alberton and Cyr. About $110,000. G. R. Metlin, Secy.

Mont., Butte—City plans to pave portions Alabama, Granite, Harrison and Excelsior St. and Broadway. J. J. Armstrong, City Engr.

Mont., Dillon—Beaverhead County plans to rebuild between 10 and 20 mi. highways. Address County Clk., Dillon.

Mont., Helena—State Highway Comn. plans Yellowstone Trail between Alberton and Cyr. About $110,000. G. R. Metlin, Secy.

Mo., Excelsior Springs—City passed resolution paving portion Kansas Ave. and Leavenworth St. W. L. Silvers, Clk.

Mo., Linn—Osage County defeated road bonds.

Mo., Sikeston—(Official)—City voted $10,000 street-improvement bonds. Noted Nov. 2.

Tex., Austin—(Official)—City does not plan $64,000 bond issue for paving. M. C. Welborn, City Engr. Noted Oct. 26.

Tex., Brady—McCulloch County, Melvin Dist., plans $30,000 bond issue for 20 mi. road. Address County Clk., Brady.

Tex., Brady—McCulloch County, Boca Dist., plans $16,000 bond issue for 20 mi. road. Address County Clk., Brady.

Tex., Denton—Denton County defeated $900,000 road bonds. Address County Clk., Denton. Noted Oct. 19.

Tex., Galveston—City soon receives bids for brick paving and sidewalks on seawall boulevard A. T. Dickey, City Engr.

Tex., Galveston—Bd. Comrs. plans to pave portion Postoffice St. A. T. Dickey, City Engr.

Tex., Palestine—Anderson County voted $400,000 for roads. Address County Clk., Anderson

Streets and Roads (Continued)

Tex., Victoria—City plans election to vote on $100,000 paving bonds.

Okla., Ardmore—Carter County plans election in December to vote on $100,000 road bonds. S. W. Tyer, Ardmore, Clk. Noted July 27.

Okla., Okmulgee—Okmulgee County voted $800,000 road bonds. Address County Clk., Okmulgee. Noted Sept. 14.

Okla., Sapulpa—City plans paving on Hobson, Birch and Lee St. R. N. Whittlesey, City Engr.

Okla., Tulsa—City receiving bids Nov. 27 for paving several streets and alleys. E. C. Hughes, City Engr. Noted Nov. 2.

Wash., Ellensburg—Kittitas County plans to spend $107,789 for road and bridge work next year. M. M. Emerson, Ellensburg, County Engr.

Wash., Port Townsend—Jefferson County appropriated $12,000 for permanent highways, $24,000 for road and bridge work and $20,000 for road district work. G. D. Edwards, Port Townsend, County Engr.

Wash., Seattle—King County making plans for 4 mi. highway between Duwamish River and Renton Junction, brick or monolithic. About $108,000. A. P. Denton, Seattle, County Engr.

Wash., Shelton—Mason County appropriated $15,000 for permanent highways, $22,000 for road and bridge work and $54,900 for road district work during 1917. A. L. Ward, Shelton, County Engr.

Ore., Fossil—(Official)—Wheeler County voted $800,000 road bonds. S. Sasser, Fossil, County Clk. Noted Oct. 19.

Calif., Fresno—Council passed resolution to widen Thomas Ave. B. E. Cronkite, City Engr.

Calif., Los Angeles—City plans to improve portion 1st and 19th St. H. Hamlin, City Engr.

Calif., Los Angeles—City plans to widen portion Chester Court.

Calif., Los Angeles—City plans to improve portion Ardmore Ave. and Santa Monica Blvd. H. Hamlin, City Engr.

Calif., Los Angeles—City plans to pave portion 48th St., warrenite; Figueroa St., concrete; Vermont Ave. and 7th St., bitulithic; also sewering portion 9th St. and Grand Ave. H. Hamlin, City Engr.

Calif., Modesto—(Official)—Stanislaus County voted $1,482,000 road bonds. Bids will soon be received. E. H. Annear, Modesto, County Engr. Noted Oct. 19.

Calif., Sacramento—State voted $1,500,000 for improving highways throughout state. Noted Mar. 2.

Calif., San Francisco—City plans to pave portion Battery St., wood block. About $32,000. M. M. O'Shaughnessy, City Engr.

Calif., Santa Ana—Orange County receiving bids Dec. 6 for 2.53 mi. concrete pavement between Brea and Olinda. Address County Clk., Santa Ana.

Calif., Ventura—Ventura County receiving bids Dec. 5 for paving Casitas, La Crosse, Montalvo, Saticoy and Sespe bridges. J B. McCleskey, Ventura, County Clk.

Ont., Bridgeburg—City election Jan. 2 to vote on bylaw for $7,400 for concrete road along river front. Queen Victoria Niagara Falls Park Comn. will bear rest of cost.

Bids In and Contracts Awarded

Mass., Watertown—(Official)—City will widen North Beacon St. by day labor. About $140,000. W. F. Learned, Engr. Noted Nov. 9.

N. Y., New York—(Brooklyn)—(Official)—Boro. let contract paving portion Bay 19th St. to CRANFORD PAVING CO., 52 9th St., $6,982; Thatford Ave., BOROUGH ASPHALT PAVING CO., 1301 Metropolitan Ave., $4,367; 81st St., BROOKLYN ALCATRAZ ASPHALT CO., 407 Hamilton Ave., $5,737. Noted Nov. 16.

N. Y., New York—(Manhattan)—(Official)—Boro. let contract paving portion West 181st St. to ASPHALT CONSTRUCTION CO., Madison Ave. and 137th St., about $10,833. Noted Nov. 16.

N. Y., New York—(Manhattan)—(Official)—Boro. let contract repaving approaches of City Island Bridge over Pelham Bay Narrows to BARBER ASPHALT PAVING CO., Woolworth Bldg., about $6,656. Noted Sept. 28.

N. Y., New York—(Manhattan)—(Official)—Boro. let contract paving portion West 134th St. to SUMMIT ENGINEERING AND CONSTRUCTION CO., $49,820. Noted Sept. 28.

N. Y., New York—(Queens)—(Official)—Low bidders street improvements were: Clancy & Nuhn, portion Jackson Ave., $28,576; Cleveland-Trinidad Asphalt Co., Buchman Ave., $12,672, Hancock St., $16,400.

N. J., Atlantic City—Bd. Chosen Freeholders let contract White Horse Pike to LITTELL & PFEIFFER, Perth Amboy, about $693,443. Noted Oct. 19.

N. J., Glen Ridge—(Official)—City let contract to P. SEOLA, 108 Glen Ridge Ave., for grading portion Careret St. Noted Nov. 9.

N. J., Newark—City let contract paving portion Shephard Ave. to STANDARD BITULITHIC CO., Essex Bldg., about $9,328. Noted Nov. 16.

N. J., Newark—City let contract paving portion Mapes Ave. to STANDARD BITULITHIC CO., Essex Bldg., about $9,316. Noted Nov. 16.

N. J., Newark—City let contract paving High St. from Boyden Pl. to Orange St. to A. J. MILMOE, 85 Littleton Ave., about $19,065; from Warren St. to Boyden Pl., to NEWARK PAVING CO., 133 1st St., about $40,242. Noted Nov. 16.

N. J., Seaside Heights—Borough let contract improving Sampson, Kearney and Fremont Ave. to C. W. MATHIS & CO., Seaside Park, about $10,900.

Penn., Erie—City let contract to JOHN McCORMICK & SONS, $4,402, paving Chestnut St.

Penn., Philadelphia—Bids received by Dept. Pub. Wks., Nov. 14, grading streets: (a) Euclid St., (b) Osage Ave., (c) Cobbs Creek Pkway, (d) 15th St. and 69th Ave., (e) Fairhill St., (f) Colonial St., (g) Albanus St., (h) Woodlawn St., (i) Beechwood St., (j) Broad St., (k) 17th St., (l) Webster St., (m) 60th St., from: Klebe & Co., Lincoln Bldg., (a) 43c. sq.yd. (low); J. Devlin, Jr., 3743 North Marshall St., (a) 47c., (c) 43c. (low); (e) 47c., (m) 37c., (low); T. P. Lee, 30 South 58th St., (a) 49c.; J. J. McHugh, Commercial Trust Bldg., (b) 57c., (low), (e) $1.25, (low); E. P. Gorman, 5316 Walnut St., (b) 63c., (c) 64c.; R. B. Winner, (b) 70c., (c) 69c.; I. K. Davis, (d) 28c., (low), (f) 43c., (i) 30c., (low), (j) 53c.; F. Mark Contracting Co., 2019 Somerset St., (d) 29c., (e) 32c., (f) 37c., (low), (g) 18c., (i) 37c., (j) 33c., (low); J. M. Feeney, 18th and Poplar St., (d) 33c.; T. Connor, 5238 Walnut St., (e) 27c., (low); J. F. Nolan, 607 Arch St., (f) 40c., (h) 42c., (i) 45c.; R. J. & A. Peoples, 2308 Callowhill St., (g) 12c., (low); Eastern Paving Co., 1416 South Penn Sq., (g) 20c., (k) 57c.; Estate of David McMahon, Main and Chelton Ave., (h) 39c., (low); J. D. Dorney, 1204 East Montgomery Ave., (h) 42c., (k) 63c.; P. J. Snyder & Co., 903 Bailey Bldg., (j) 64c.; G. Moehrle, 2631 North 28th St., (k) 56c. (low); Robbin Contracting Co., (l) $1.40; A. W. Barnes, Righter and Hermit St., (m) 40c.

Del., Wilmington—State Highway Comn. let contract resurfacing portion Concord Turnpike to STANDARD BITULITHIC CO., c/o M. Howe, Ford Bldg., about $33,000. Noted Nov. 16.

Md., Elkton—County let contract 2½ mi. macadam road between Millers Corners and Cowentown to E. W. BROWN, Port Deposit.

W. Va., Logan—(Official)—County rejected bids for 2 mi. highway. R. M. Wilson, Logan, County Rd. Engr. Noted Oct. 19.

Ga., Statenville—(Official)—Echols County will build road from Statenville to county line by convict labor. Noted Nov. 2.

Ala., Gadsden—Etowah County Highway Comn. let contract about 2 mi. road to J. F. MORGAN & CO., $10,000.

Miss., Greenwood—Le Flore County let contract paving road from Greenwood to Lucas' Gin to MEMPHIS ASPHALT AND PAVING CO., Memphis; asphalt oil penetration treatment, KANE-KELLY CONSTRUCTION CO., New Orleans.

Miss., Jackson—Hinds County let contract Clinton-McRaven, Sanders and Terry Pine Grove Rd., Dist. No. 5, and Garland and Lavernet Rd., Dist. No. 1, to S. A. GANO; Whitfield-Clinton, McRaven and Tinnin Rds., Dist. No. 1, HINDS COUNTY CONSTRUCTION CO. About $51,000. Noted July 27.

La., Jennings—County let contracts road work to WORTHINGTON CONSTRUCTION CO., First National Bank Bldg., Birmingham, road from ~~Welsh to Fenton~~ and Ward 9; HEALY CONSTRUCTION CO, Meridian, Miss., Calcassiu-Mermentau Rd.; J. N. GEORGE, Shreveport, road from Welsh to Lake Arthur, Jennings to Elton and Lake Arthur to Jaenke Bridge toward oil field and vicinity of Roanoke. About $500,000.

La., Lake Charles—City let contract gravel paving to DE JERSEY & NAFF, Lake Charles, about $15,000. Noted Oct. 26.

La., Monroe—State Highway Dept. let contract 13 mi. gravel roads to WETZEL & CO., Monroe, about $109,634.

Tenn., Chattanooga—Hamilton County let contract portion Sequatchie Valley Pike to BENNETT & MALONEY CONSTRUCTION CO., Chattanooga, $37,181.

Tenn., Newport—(Official)—City let contract to MURRAY CONSTRUCTION CO., 1222-26 Holston National Bank Bldg., Knoxville, paving streets. Noted Apr. 6.

Ky., Middlesboro—City let contract improving portions Cumberland Ave., 18th, 19th and 20th St. to G. P. SHARP. Noted Sept. 7.

Ohio, Cincinnati—Hamilton County let contract improving North Bend Rd. to THURBER & BROWNING, 4312 Spring Grove Ave., $60,692. Noted Nov. 16.

Ohio, Cincinnati—Hamilton County let contract paving Cameron Rd. to P. PRAECHTER, 2935 Gerard Ave., $44,232. Noted Nov. 16.

Ohio, Dayton—Montgomery County let contract to FARRELL & CRAMPTON, $8,884, improving New Troy Pike.

Ohio, New Boston—City received no bids for paving Rhodes Ave. Noted Oct. 5.

Ohio, Pomeroy—(Official)—Village let contract to G. BAUER, $5,500, paving portion Mechanic St. Noted Nov. 2.

Ohio, Youngstown—City let contract paving to V. OLSON, Youngstown, about $26,456. Noted Nov. 2.

Ohio, Youngstown—(Official)—City let contract paving Boardman St. to TURNER CONSTRUCTION CO., Mahoning Bank Bldg., about $9,526. Noted Nov. 2.

Ind., Columbia City—Whitley County let contract gravel roads to E. E. LEHMER & CO., North Manchester, about $11,648. Noted Oct. 19.

Ind., Corydon—Harrison County let contract road on line between Taylor and Boone Townships to MILLER & MILLER, Mauckport, about $18,349. Noted Oct. 19.

Ind., Indianapolis—City let contract paving portion Meridian St. to MARION COUNTY CONSTRUCTION CO., 1600 South West St. Noted July 20.

Ind., Indianapolis—Bd. Park Comrs. let contract parkway and boulevard along Pogues Run from Brookside to Jefferson Ave. to S. M. TIMBERLAKE, about $52,995.

Ind., Laporate—(Official)—Laporte County let contract Troxel Rd. to C. KAIN, Medaryville, about $21,400. Noted Oct. 19.

Ind., Laporate—(Official)—Laporte County let contract Gardner Rd. to C. KAIN, Medaryville, about $8,200. Noted Oct. 19.

Ill., Geneseo—City let contract paving and curbing 1st St. to GENERAL ENGINEERING AND CONTRACTING CO., Freeport, about $8,886.

Minn., St. Paul—City let contract improving portion Stewart Ave. to KEPUGH BROS., about $16,500.

Ark., Ft. Smith—City let contract to CLEVELAND TRINIDAD PAVING CO., 421 Lakeside Ave., $12,499 paving in Dist. No. 12.

Ark., Texarkana—Bd. Impvt. Dist. No. 20 let contract to BURKE CONSTRUCTION CO., Ft. Smith, 100,000 sq.yd. paving. Noted Nov. 16.

Okla., Clinton—City let contract paving Frisco Ave. to WESTERN PAVING CO., Oklahoma. Noted Mar. 30.

Okla., Oklahoma—City let contract paving Lincoln Blvd. to SANDRINGHAM CONSTRUCTION CO., Oklahoma, about $16,683. Noted Oct. 19.

Okla., Waurika—Jefferson County let contract 7 mi. highway in Earl Township to J. THOMPSON, Ringling. Noted June 1.

Wash., Bellingham—City let contract paving G St. to K. SAUSET, about $14,089. Noted Oct. 19.

Wash., Richland—County let contract Hanford-Richland Rd. to O. S. BROWN, Prosser, about $19,000.

Calif., Avon—County let contract highways to CHADWICK & SYKES, Crocker Bldg., San Francisco, about $17[illegible]00.

Calif., Bakersfield—Kern County let contract 12.3 mi. paving on Bakersfield-Mojave Highway to R. SHERER & CO., 750 Pacific Electric Bldg., Los Angeles, $70,154. Noted Oct. 26.

Calif., Corona—City let contract paving portion North Main and River St. to JOHNSON-SHEA CO., Riverside, about $10,224.

Calif., Los Angeles—City let contract improving portion Lincoln Ave. to M. T. SHAFER, about $5,091. Noted Oct. 26.

Calif., Los Angeles—City let contract improving portion 14th St. to CALIFORNIA-ARIZONA CONSTRUCTION CO., 1700 East Washington St., $7,258.

Calif., Ontario—City let contract improving various streets to J. F. MILLER, Santa Monica, about $16,000.

Calif., Stockton—San Joaquin County let contract road work to G. LUHRSEN, Bethany, about $7,000.

Calif., Ventura—Ventura County received low bid paving 11.1 mi. Div. 1, Ventura to Santa Paula Rd., from Brashear-Burns Co., Los Angeles, about $39,349. Noted Nov. 2.

INDUSTRIAL WORKS

Proposed Work

Maine, Portland—Rundlett & Verrill Co. plans cold-storage plant on Union Wharf. About $100,000.

Vt., Burlington—H. U. Coon Ice Cream Co. making plans for 2-story concrete and brick factory. About $12,000. F. L. Austin, Burlington, Arch.

Mass., Holyoke—Farr Alpaca Co., Jackson St., making plans for new building, Cabot and Bigelow St. S. M. Green Co., 293 Bridge St., Springfield, Engr. and Arch. Noted Oct. 12.

Conn., Bridgeport—Bridgeport Projectile Co. plans 2-story addition to plant.

Conn., Hartford—Eastern Motors Incorporated, organized with $1,000,000 capital, will build factory for manufacture of automobiles. W. D. Upson, Waterbury, interested.

Conn., Waterbury—Chase Metal Works granted permit for 1-story, 62x200-ft. storehouse on Thomaston Ave.

N. Y., Buffalo—Niagara Fireworks Co., Michigan and Myrtle St., purchased site on East Delavan Ave. for 17 small factory buildings.

N. Y., Buffalo—American Body Co., 1271 Niagara St., plans made for $10,000 addition. Noted Feb. 24.

N. Y., Buffalo—Jacob Dold Packing Co. plans addition at William St. and Fillimore Ave.

Industrial Works (Continued)

N. Y., Buffalo—United States Alloys, Inc., plans branch plant at Buffalo.

N. Y., Canandaigua—Roper Knitting Co., recently incorporated, plans plant. G. Roper, Canandaigua, Vice-Pres.

N. Y., Lockport—Harrison Manufacturing Co. sold to United Motors Corporation, who will build large addition. About $300,000.

N. Y., Lyons—Lyons Cold Storage Co. plans addition to plant in Elmer St.

N. Y., New York—(Bronx) Universal Ice Manufacturing Co. plans ice-making plant at Park Ave. and 168th St. E. S. Napolis, Pres.

N. Y., Phœnix—Duffy Silk Co. plans to rebuild plant recently destroyed by fire with loss of $150,000.

N. Y., Rochester—Bausch & Lomb Optical Co., St. Paul St., plans 1-story, 70x120-ft. addition.

N. Y., Troy—Swift & Co., Union Stock Yards, Chicago, plans plant, Saratoga and Pine St. About $20,000.

N. J., Ridgefield Park—Cooney Dyeing Co. will construct 3-story plant on Hackensack River.

Penn., New Castle—American Sheet and Tin Plate Co. plans new plant adjoining Shenango plant. About $500,000.

N. J., Trenton—Dellon Tire and Rubber Co. soon receives bids for addition to plant. About $18,000. J. O. Hunt, Trenton, Arch.

Penn., Farrell—United States Steel Corporation appropriated $1,000,000 for 10 additional hot mills at Farrell Works of American Sheet and Tin Plate Co.

Penn., Philadelphia—J. H. Ferguson, Broad St. and Hunting Park Ave., making plans for machine shop.

Penn., Philadelphia—J. Mastbaum, 258 North Broad St., to build 4-story building at 664-66 North Broad St. to be leased by Fisk Rubber Co. About $100,000.

Penn., Philadelphia—Royal Pioneer Paper Box Co., 934 North 3rd St., making plans for addition.

Penn., Philadelphia—West Philadelphia Stock Yards Co. making plans for 2-story, 61x125-ft. addition to packing plant, 30th and Race St.

Penn., Pittsburgh—Atlantic Refining Co. making plans for 13-story building, Strawberry Way and Grand Blvd. About $1,000,000. W. G. Wilkins, Engr. and Arch.

Penn., Pittsburgh—Gilmore Drug Co. plans warehouse at Second Ave. and Cherry Way. About $500,000.

Penn., Pittsburgh—Panhandle Traction Co. plans freight warehouse along Forbes, Boyd and Hooper St. W. B. Atwood, Wheeling, Gen. Supt.

Penn., Pittsburgh—Point Improvement Co. plans 6-story concrete warehouse on 7th St. About $53,000.

Penn., Pittsburgh—St. Louis Independent Packing Co., 3857 Choteau Ave., St. Louis, Mo., made plans for cold-storage plant and meat depot at Hamilton and Torrence Ave., East End Dist. Charles Krause, Arch. About $55,000. Noted Apr. 6.

Penn., Pittsburgh—J. Stuart granted permit for 1-story commercial garage, Baum Blvd. and Melwood St., about $30,000.

Penn., Pittsburgh—H. Wilfred and C. M. DuPuy to build 3-story, 46x65-ft., stucco and terra cotta building at Tunnel St. and Webster Ave., to be leased by Pennsylvania Rubber Co., 505 Liberty Ave. F. I. Merrick, Empire Bldg., Arch.

Penn., West Conshohocken—Merion Worsted Mill making plans for 1-story, 82x150-ft. brick addition.

Penn., Williamsport—Lycoming Rubber Co. plans 4-story, 55x100-ft. addition to plant. About $40,000. C. R. Haynes, Gen. Supt.

Penn., Williamsport—Standard Wood Pipe Co. plans new factory.

Va., Roanoke—Lindsey, Robinson & Co. plans mill and warehouse.

Va., Norfolk—Norfolk Shipbuilding and Drydock Co., recently organized, with $1,500,000 capital, plans plant. About $1,250,000. H. G. Skinner, interested.

W. Va., Charleston—(Official)—E. C. Klipstein & Son making plans for 4-story, 58x120-ft. rein.-con. chemical plant. Charles H. Higgins, 30 Church St., New York, Arch.

W. Va., Huntington—Huntington Iron Works plans plant. F. A. Reich, Pres. and Gen. Mgr.

W. Va., Huntington—Standard Stamping Co., Marysville, Ohio, plans plant at Huntington.

W. Va., Princeton—Virginia Ice and Cold Storage Co. soon lets contract for plant. About $16,000. E. L. Davis, Lynchburg, Mgr.

W. Va., Sistersville—Sistersville Boiler Works plans plant.

N. C., Charlotte—C. O. Kuester plans knitting mill. About $75,000.

N. C., High Point—Commonwealth Hosiery Mills, organized with $125,000 stock, plans knitting mill.

Ga., La Grange—W. L. Cleaveland, C. V. Truitt and associates plan to organize company to build packing plant.

Fla., Jacksonville—Dixie Milling Co. will be incorporated to build roller mill. J. C. Herndon, Secy.

La., New Orleans—Maginnis Mills made plans for warehouse. About $12,000. E. S. Hayford, New Orleans, Arch.

La., New Orleans—Southern Car Co., High Point, N. C., plans car works. About $500,000.

Tenn., Memphis—Memphis Motor Car Co., 987 Union St., granted permit for 1-story storage and shop building. About $30,000.

Ohio, Addyston—United States Cast Iron Pipe and Foundry Co. plans 2- or 3-story machine shop. About $300,000. W. L. Perkins, River Rd., Res. Mgr.

Ohio, Canton—United Alloy Steel Co. plans to enlarge plant. About $2,000,000. H. R. Jones, Pres.

Ohio, Cincinnati—Bourne Fuller Co., Front and Smith St., plans addition to warehouse. About $12,000.

Ohio, Cincinnati—Carlton Machine Tool Co. granted permit for plant at Spring Grove Ave. and Meeker St. About $19,500. Noted Aug. 17.

Ohio, Cincinnati—C. L. Hills Co., 832 Reedy St., plans new plant, south side of Front St.

Ohio, Cleveland—American Shipbuilding Co. granted permit for addition at 5310 Crescent Ave., N. W. About $20,000.

Ohio, Cleveland—Cadillac Investment Co. granted permit for garage at 1865 East 30th St. About $100,000.

Ohio, Cleveland—McLaren Iron Works Co. granted permit for plant at 1725 Urbana Rd. About $15,000. Noted Sept. 21.

Ohio, Cleveland—Parsons & Parsons Co., 5902 Carnegie Ave., purchased site on East 4th St. for new plant.

Ohio, Cleveland—Swift & Co. granted permit for 3-story fertilizer plant at 3243 West 65th St. About $10,000. Noted Sept. 28.

Ohio, Dayton—Crown Hardware Manufacturing Co. plans addition. E. Huston, Pres.

Ohio, East Palestine—East Palestine Rubber Co. purchased site of 12 acres on main line Pennsylvania R.R. Lines West of Pittsburgh, at East Palestine, and will let contract for first unit of plant about Dec. 10. A. Lyon, Pres.

Ohio, Findlay—Findlay Steel Castings Co., recently incorporated with $200,000 capital stock, plans plant.

Ohio, Ironton—Dayton Malleable Co. plans addition.

Ohio, Sandusky—Mathews Engineering Co., Port Clinton, plans factory at Sandusky.

Ohio, Warren—Guarlieri Ice Cream Co. making plans for 2-story addition. About $25,000. C. D. Cooley Co., Century Bldg., Pittsburgh, Arch.

Ind., Evansville—Terre Haute Pure Milk and Ice Cream Co. making preliminary plans for 6-story cold-storage plant. About $75,000. C. D. Cooley Co., Century Bldg., Pittsburgh, Arch.

Ind., Ft. Wayne—Motor Sales Corporation making plans for garage, 313-21 East Washington St. About $35,000. C. J. Weber and C. Gale, Arch. L. Gale, Mgr.

Ind., Indianapolis—M. O'Connor & Co., 47-49 South Meridian St., plans new building at Meridian, Pennsylvania and McCarty St.

Ind., Indianapolis—Peerless Foundry Co. made plans for 2-story, 90x212-ft. factory and foundry. T. Cornwall, 718 East Maryland St., Mgr. L. B. Milliken, 1556 Lemcke Annex, Arch.

Mich., Detroit—J. Vernor Co., 33 Woodward Ave., plans 6-story, 50x100x90 ft. brick and steel factory. About $50,000.

Mich., Flint—Flint Spring Water Co. granted permit for 1-story ice plant. About $40,000. A. C. Bishop, Citizens Bldg., Cleveland, Arch. Noted Oct. 26.

Mich., Grand Rapids—R. M. De Bruyn plans warehouse on Market Ave.

Ill., Chicago—Central Manufacturing Dist. plans 6-story, 110x140 ft. warehouse on 39th St. to be leased to Cross, Roy & Saunders. About $225,000.

Ill., Chicago—M. Clamitz plans 1-story garage on Madison St. About $20,000.

Ill., Chicago—Guggenheim Bros., 46th St. and Packers Ave., making plans for addition to plant. About $250,000.

Ill., Chicago—(Hawthorne)—Western Electric Co., 48th and 22nd St., made plans for 4- or 5-story addition to plant at Hawthorne. About $700,000.

Ill., Ottawa—Ottawa Silica Co. made plans for plant in Valley Addition. About $150,000.

Ill., Peoria—Great Western Distillery granted permit for addition to plant. About $50,000.

Ill., Peoria—Mackemer Automobile and Sales and Service Station, 810-12 Main St., granted permit for addition. About $50,000.

Ill., Peoria—Peoria Malting Co. granted permit for addition to plant. About $60,000. Noted June 29.

Wis., Manitowoc—W. Hahr Sons Co. plans 500,000-bu. grain elevator and cleaning house. Witherspoon & Engler Co., 1250 Monadnock Bldg., Chicago, Arch. and Engr.

Wis., Milwaukee—Blatz-Kasten Co. plans factory at North Pierce and Central St. About $22,000.

Wis., Milwaukee—Cutler-Hammer Manufacturing Co. making plans for addition, 6-story, 50x283-ft., at 12th St. and St. Paul Ave. About $150,000. H. J. Esser, Camp Bldg., Milwaukee, Arch.

Iowa, Des Moines—C. L. Herring Motor Co. plans 2-story brick service station.

Iowa, Iowa City—J. Luithly plans dairy plant, about $15,000.

Iowa, Mason City—J. E. Becker & Son Packing Co. soon receives bids for 6-story, 80x100-ft. brick and rein.-con. smoke house. About $50,000.

Iowa, Waterloo—Rath Packing Co. making plans for 5-story, 84x114 ft., rein.-con. cold-storage plant. Henschien & McLaren, 37 Van Buren St., Chicago, Arch. About $80,000.

Iowa, Waterloo—B. Schultz plans 3-story warehouse on Commercial St. About $20,000.

Minn., St. Paul—Wege Concrete Machinery Co. plans new factory. About $150,000. A. J. Kroeger, St. Paul, interested.

Kan., Coffeyville—National Refining Co. plans building. About $250,000.

Kan., Hutchinson—Four S Razor Co. receiving bids Nov. 25 for factory on Ave. A. Mann & Gerow, Rorabaugh-Wiley Bldg., Hutchinson, Arch. V. T. Miller, Pres. Noted July 20.

Kan., Wichita—Kanita Refining Co. plans plant. J. A. Corbett, Pres.

Neb., North Platte—J. Pizer plans cold-storage plant and fruit house. About $75,000.

Neb., Omaha—Interstate Flour and Feed Co. plans warehouse at 16th Ave. and tracks, Chicago & Great Western Ry.

Neb., Omaha—Omaha Alfalfa Milling Co. plans 150x157-ft. warehouse.

Neb., Omaha—Waterloo Creamery Co. making plans for new plant, 16th and Pierce St. About $125,000. C. A. Berger, Minneapolis, Arch.

Mont., Laurel—Northern Pacific Ry. plans car shops. About $15,000. H. E. Stevens, St. Paul, Minn., Ch. Engr.

Mo., Kansas City—Briscoe Motor Corporation making plans for new assembling plant. About $300,000.

Mo., Kansas City—C. J. Flanagan, 1002 Waldheim Bldg., interested in 5- or 7-story brick and concrete warehouse at 9th and Liberty St. Estimated cost, $300,000.

Mo., Kansas City—J. W. Jenkins Sons' Music Co. purchased site on South Walnut St. for 6-story warehouse.

Mo., St. Joseph—Richardson Dry Goods Co., 302 North 3rd St., making plans for 4-story, 100x130-ft. brick warehouse, 3rd and Jule St. R. F. Heim, Corby-Forsee Bldg., Arch.

Mo., St. Louis—Central Iron Co. plans plant west side North 16th St.

Mo., St. Louis—Fulton Iron Works making plans for steel forge works. About $500,000. J. O. O'Neil, Pres.

Mo., Springfield—Springfield Laundry Co. plans plant.

Ark., Ft. Smith—Arkansas Refinery Co. plans addition, about $50,000. Charles Ditto, Engr.

Ark., Little Rock—E. Stapp, Louisville, Ky., plans flour mill at 1413 East 9th St. About $25,000.

Tex., Manchester—Stauffer Chemical Co., 624 California St., San Francisco, plans plant on ship channel at Manchester.

Tex., Plainview—Holly Sugar Co., Holly, Colo., plans sugar-beet factory at Plainview.

Tex., Sequin—Round Bale Gin Co. receiving bids Dec. 1 for rebuilding of plant.

Okla., Thomas—Thomas Milling Co. plans to rebuild mill and elevator destroyed by fire. Estimated cost, $300,000.

Colo., Denver—Denver Bread Co. making plans for bakery. P. H. Anthony, 1109 Waldheim Bldg., Kansas City, Mo., Arch.

Colo., Denver—C. Ell has plans prepared for garage. Estimated cost, $45,000. R. A. Pierce, Arch.

Colo., Denver—Swift & Co., 1522 20th St., plans to enlarge stockyards. About $500,000.

Colo., Denver—Vulcan Iron Works made plans for factory. About $12,000. R. A. Pierce, Arch.

Colo., Pueblo—Purity Bread Co. making plans for 2-story bakery. P. H. Anthony, 1109 Waldheim Bldg., Kansas City, Mo., Arch.

Utah, Salt Lake City—Cudahy Packing Co. plans plant to cost $100,000.

Wash., Bellingham—Morrison Mill Co. plans 2-story, 50x150-ft. factory. About $20,000.

Wash., North Yakima—J. M. Berry & Co. plans 100x180-ft. addition to warehouse. About $50,000.

Wash., Spokane—Spokane Knitting Mills plans 4-story factory.

Wash., Toppenish—Mutual Creamery Co. plans cheese factory. About $10,000.

Ore., Pendleton—Standard Oil Co. plans fireproof warehouse, pump house and unloading platform.

Calif., Berkeley—C. Huiskamp and R. W. Seward plans brick factory on Blake St. About $17,000.

Calif., Emeryville—Judson Manufacturing Co., 819 Folsom St., San Francisco, plans addition to plant. About $100,000.

Calif., Huntington Park—Warman Steel Casting Co., 650 South Los Angeles St., Los Angeles.

Industrial Works (Continued)

purchased site at Huntington Park and will remove foundry from Redondo Beach, also build 3 new buildings. About $100,000.

Calif., King City—Wideman Goat Milk Co. plans addition. About $10,000.

Calif., Los Angeles—A. C. Martin, 430 Higgins Bldg., plans 2-story building on Washington St. for manufacturing and painting auto bodies.

Calif., Needles—Atchison, Topeka & Santa Fe Ry. plans roundhouse and machine shops. About $300,000. F. M. Bisbee, Amarillo, Tex., Ch. Engr. Western Lines.

Calif., South San Francisco—E. H. Edwards Co., 541 Howard St., San Francisco, plans 1-story, 60x200-ft. factory.

Calif., Stockton—Standard Steel Wheel Co. plans plant. About $40,000. J. M. Benham, Pres.

Ont., London—London & Port Stanley Ry. plans to enlarge repair shops. About $25,000. J. E. Richards, London, Treas. and Mgr.

Ont., Ottawa—R. L. Crain, Spruce St., plans printing plant. About $20,000.

Ont., Rainy River—Blackmore Bros. plan machine shop. About $15,000.

Bids In and Contract Awarded

Maine, Bangor—C. S. Jones, 49 Pickering Sq., let contract bakery to E. C. HODGINS & SON, Bangor, about $10,000. Noted Oct. 26.

Mass., Chelsea—Frost Hospital let contract laundry and heating plant to J. SLOTWIK, 10 Lawrence St., about $14,000. Noted July 6.

Mass., Fall River—Ashworth Bros. let contract factory, 3-story, 88x122-ft., on Globe Mills St. to BEATTY & CORNELL, 33 North Quarry St., Fall River. About $35,000.

Mass., Wakefield—Morrison-Skinner Co. let contract factory and power plant on New Salem St. to CHESTER A. PATTEN, Youle St., Melrose, about $20,000.

Mass., Worcester—Leland-Gifford Co. let contract 4-story addition to plant to J. W. BISHOP CO., 109 Foster St., about $75,000.

Conn., Middletown—Russell Manufacturing Co., South Farms, let contract 2-story, 150x150-ft. factory to D. O'BRIEN, 80 Crescent St.

Conn., Waterbury—Scovill Manufacturing Co. let contract for 1-story, 125x220-ft., and 2-story, 50x170-ft. factory on Silver St. to McCLINTOCK & MARSHALL.

N. Y., New York—(Brooklyn)—(Official)—Doehler Die-Casting Co. let contract addition at Court and 9th St. to TURNER CONSTRUCTION CO., 11 Broadway, Manhattan, about $150,000.

Penn., Ardmore—Auto Car Co. let contract addition to J. R. WIGGINS & CO., Heed Bldg., Philadelphia, about $35,000. Noted Sept. 7.

Penn., New Castle—Pullmore Motor Truck Co., incorporated with $800,000 capital stock, let contract first unit of plant to S. AUSTIN CO., 14,230 Euclid Ave., Cleveland. J. F. Young, Frick Bldg., Pittsburgh, Pres.

Penn., Philadelphia—(Tacony)—Erben-Harding Co., Commercial Trade Bldg., let contract 4-story, 100x150-ft. factory to W. STEELE & SONS CO., 1600 Arch St.

Penn., Philadelphia—R. A. Heymann & Bro., Widener Bldg., let contract auto show rooms, Broad and Wallace St., to I. T. SHOEMAKER, 1324 Walnut St., about $36,000.

Penn., Philadelphia—Packard Motor Car Co. let contract 8-story, 49x69-ft. addition to J. R. WIGGINS & CO., 1215 Filbert St., Philadelphia. Noted Aug. 3.

Penn., Philadelphia—Philadelphia Enamel Manufacturing Co., 1311 Vine St., let contract 1-story, 120x200-ft. factory, 82nd St. and Bartram Ave., to C. H. SCHWARTZ. Noted Nov. 9.

Del., Wilmington—Wilmington Leather Co let contract 6-story, 50x200-ft. factory to JOYCE & KERRIGAN, Wilmington, about $57,000. Noted Sept. 21.

S. C., Rockhill—Hamilton Carhatt Cotton Mills let contract first unit Mill No. 2 to SELLERS & PAGGETT, Columbia. Plant to consist of 3 units, about $300,000.

Ga., Columbus—Meritas Mills Corporation let contract to T. C. THOMPSON & BROS., for addition. About $250,000.

La., Shreveport—Wray-Dickinson Sales and Garage Co. let contract service station and automobile building to W. H. WERNER, Shreveport, about $50,000. Noted Nov. 9.

Ohio, Massillon—Massillon Foundry and Machine Co., West St., let contract plant to E. CONVERSE, Massillon. Noted Oct. 19.

Ill., Chicago—Marks Manufacturing Co., Conroy Bldg., let contract plant, 93rd St. and Lake Michigan Steel Furnace, to McCALL CONSTRUCTION CO., 327 South La Salle St. About $50,000.

Ill., Chicago—Swift & Co., U. S. Yards, let contract 7-story storage house to C. A. MOSES CONSTRUCTION CO., 133 West Washington St., about $66,000.

Ill., Pekin—Atchison, Topeka & Santa Fe Ry. let contract 1-story, brick and concrete roundhouse and turntable to LUNDGREN & CARLSON, 213 Jackson St., Topeka, Kan., about $14,000.

Wis., Beaver Dam—R. Christian, Burnett, let contract garage and repair shop to HUTTER CONSTRUCTION CO., Fond du Lac. Noted Mar. 2.

Wis., Eau Claire—J. H. Kaiser & Son, Menomonie St., let contract 1-story, 80x150-ft. box and crating factory to R. L. RICHMAN, Eau Claire.

Wis., Milkwaukee—Milwaukee Dairy Supply Co. let contract factory at 12th and Burleigh St. to STATE CONCRETE BLOCK CO., 3112 Burleigh St., about $15,000. Noted Mar. 16.

Minn., Minneapolis—Curtis, Yale, Howard Co., Security Bldg., let contract factory, 1901 Fifth St., N. E., to DAVIS CONSTRUCTION CO., 706 Plymouth Bldg., about $19,500.

Kan., Arkansas City—Milliken Oil Co., Merchants Exchange Bldg., St. Louis, Mo., let contracts for refinery to J. W. TRASK CONSTRUCTION CO., Arkansas City, excavating, concrete and steel erection, to ATLAS CONSTRUCTION CO., Tulsa, Okla., brick work. About $1,000,000. Noted Sept. 7.

Kan., Hutchinson—Kansas Packing Co., Rorabaugh-Wiley Bldg., let contract remodeling plant to TOWLE ENGINEERING CO., City National Bank Bldg., Omaha, Neb. About $100,000. Noted May 11.

Neb., Columbus—Beatrice Cold Storage Co. let contract plant to J. B. BRACK, Columbus, about $25,000.

Neb., Lincoln—F. DuTell, 140 North O St., let contract 2-story garage to W. D. LAWRENCE, 1122 Washington St., Lincoln, about $25,000. Noted Nov. 9.

Neb., Norfolk—Albough Dover Co. received low bid 1-story, 80x100-ft. factory from W. J. Creedon & Co., Norfolk, $38,401. Noted Sept. 28.

Neb., Omaha—Fairmont Creamery Co., 12th and Jones St., let contract 2-story factory to J. H. HARTE, 1608 Webster St., Omaha, about $50,000. Noted Nov. 2.

Mo., Kansas City—Punton Bros. Publishing Co. let contract addition to HARRY SHEPHERD, 2421 Troost Ave., Kansas City. About $17,500.

Mo., Kansas City—Wells Fargo Co. let contract garage and stable to LONSDALE BROS., 520 Bryant Bldg., Kansas City, about $100,000.

Mo., St. Louis—Branoso Realty Co. let contract factory at 4409 Cook Ave. to MURCH BROS. CONSTRUCTION CO., Railway Exchange Bldg., about $40,000.

Tex., Wichita Falls—Wichita Mill and Elevator Co. let contract grain elevators to BURRELL ENGINEERING AND CONSTRUCTION CO., Chicago.

Calif., Sacramento—A. Teichert let contract carriage factory to TEICHERT & AMBROSE, about $15,000.

Calif., San Francisco—M. A. McLaughlin has awarded the contract for a 2-story factory to FARRELL & REED, Gunst Bldg., about $25,417.

Calif., San Francisco—United States Envelope Co. let contract 4-story warehouse to P. A. PALMER, Monadnock Bldg.

Ont., Galt—Galt Brass Works let contract addition to P. H. SECORD & SONS, Brantford, about $15,000.

FEDERAL GOVERNMENT WORK

Proposed Work

Mass., Boston—Rubblestone—U. S. Engr. Office, Boston, receiving bids Dec. 15, in jetties of Newburyport Harbor, Mass. (See adv.)

N. Y., New York—Dredging and Rock Removal—U. S. Engr. Office, Room 710 Army Bldg., 39 Whitehall St., New York, receiving bids Dec. 8, in Port Chester Harbor, N. Y. (See adv.)

N. Y., New York—Groins, Etc.—U. S. Engr. Office, Room 802, 39 Whitehall St., receiving bids Dec. 1 for timber groins and repair of seawall near southern boundary of Sandy Hook Reservation, N. J. (See adv.)

N. Y., Syracuse—Post Office—J. A. Wetmore, Superv. Arch., Treasury Dept., Washington, D. C., receives bids in December.

N. Y., Tompkinsville—Cables—Lighthouse Inspector receiving bids Nov. 27, 2-, 1-, ⅜-in. stud link chain.

N. Y., Tompkinsville—Engine—Lighthouse Inspector, Tompkinsville, receiving bids Dec. 16 for one 150-hp. marine oil engine and 1 hoisting engine. (See adv.)

N. J., Ft. Hancock—Water Tank and Tower—Quartermaster, Ft. Hancock, receiving bids Dec. 5 for repairing, 50,000-gal. (See adv.)

Penn., Philadelphia—Riprap Stone—U. S. Engr. Office, Philadelphia, receiving bids Nov. 28, in Delaware River, at Artificial Island.

Md., Frederick—Post Office—J. A. Wetmore, Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Dec. 26.

Wash., D. C.—Railway Tracks—Dist. Comrs., Room 509, Dist. Bldg., receiving bids Nov. 27 for restoring street-railway tracks to grade on 1st St. east from B St. south to B St., north. (See adv.)

Va., Cape Charles—Buildings—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Dec. 14 for officers' quarters at U. S. Quarantine Station, Cape Charles.

W. Va., Wheeling—Lock Gates—U. S. Engr. Office, Wheeling, receiving bids Dec. 14, at Dam No. 21, Ohio River. (See adv.)

W. Va., Wheeling—Steel, Castings, Etc.—U. S. Engr. Office, Wheeling, receiving bids Dec. 5 for metal work for Dams Nos. 23, 25 and 27, Ohio River. (See adv.)

S. C., Charleston—Buildings—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Dec. 4 for radio building, masts and tower Noted Nov. 16.

S. C., Marion—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Jan. 18.

Ohio, Cincinnati—Lock Gates—U. S. Engr. Office, Cincinnati, receiving bids Dec. 19, Dams Nos 31 and 35, Ohio River. (See adv.)

Ohio, Cincinnati—Wicket Irons, Horses, Etc.—U. S. Engr. Office, Cincinnati, receiving bids Dec. 8, at Ohio River Dams Nos. 31, 33, 35 and 39. (See adv.)

Ind., Indiana Harbor—Breakwater—U. S. Engr. Office, 508 Federal Bldg., Chicago, receiving bids Dec. 15 for rubble mound breakwater at Indiana Harbor. (See adv.)

Mich., Dowagiac—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Dec. 22.

Mich., Grand Rapids—Riprap—U. S. Engr. Office, Grand Rapids, receiving bids Dec. 11, 56,000 tons at Ludkington Harbor, Mich.

Iowa, Maquoketa—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Dec. 26. Noted June 8.

Mont., Browning—Bridge—U. S. Rec. Ser., Washington, receiving bids Dec. 20 for 4 steel highway bridge consisting of four 41-ft. 6-in. pony truss spans over spillway at Sherburne Lakes Dam, Milk River Project. (See adv.)

Tex., Ft. Sam Houston—Building—C. Abel, Constructing Quartermaster, Ft. Sam Houston, receiving bids Nov. 28.

Tex., Nacogdoches—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, receiving bids Dec. 28.

Colo., Denver—Excavators—U. S. Rec. Ser., Denver, receiving bids Nov. 24, North Platte Project, Wyo. A. P. Davis, Ch. Engr. Noted Oct. 5.

Ariz., Yuma—Levee Improvement—U. S. Engr. Office, 723 Central Bldg., Los Angeles, Calif., receiving bids Dec. 15. Noted Feb. 10.

Panama—Garbage Plant—Government plans 180-ton.

Panama—Miscellaneous Supplies—E. I. Brown, Gen. Pur. Agt., Panama Canal, Washington, D. C., receiving bids Dec. 2, Circular 1100.

Panama—Miscellaneous Supplies—E. I. Brown, Gen. Pur. Agt., Panama Canal, Washington, D. C., receiving bids Dec. 8, Circular No. 1102.

Bids In and Contracts Awarded

N. J., Woodbury—Post Office—Government rejected bids. Noted Nov. 16.

Penn., Media—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., received low bids (a) limestone, (b) sandstone, from J. G. Unkefer & Co., Minerva, Ohio, (a) $58,400, (b) $59,800; E. T. Abbott Construction Co., 1133 Broadway, New York, (a) $60,886, (b) $61,900; C. McCaul Co., Philadelphia, (a) $63,850, (b) $65,000. Noted Oct. 12.

Penn., Philadelphia—Dredging, Etc.—U. S. Engr. Office, Philadelphia, received low bids in Delaware River, Philadelphia Harbor, (a) Sect. K, (b) Sects. L and M, (c) Sects. K, L and M from Maryland Dredging and Contracting Co., Baltimore, Md., (c) 10.5c.; Coastwise Dredging Co., Norfolk, Va., (a) 11c.; American Dredging Co., Philadelphia, (a) 10.2c., (b) 10.2c., (c) 9.9c. Noted Oct. 12.

D. C., Washington—Bridges—Dist. Comrs. rejected bids, 7 span on Benning Rd. Noted Nov. 16.

D. C., Washington—Equipment Shops—Government let contract for Post Office Dept., to DAVIS CONSTRUCTION CO., Washington, D. C., $120,936. Noted Nov. 2.

D. C., Washington—Wall—Dist. Comrs. let contract portion wall on Canal Rd. to W. D. MURRAY, Washington, $22,000. Noted Nov. 9.

Va., Norfolk—Buildings—Bureau of Yards and Docks, Navy Dept., Washington, received low bids for student officers' quarters, Navy Yard, from J. H. Nolan Construction Co., Washington, D. C., $42,120; R. R. Richardson, Norfolk, $47,430; Harwood & Moss, Newport News, $47,777. Noted Nov. 9.

Tex., Velasco—Coast Guard Station—U. S. Coast Guard Office, Washington, D. C., received low bids from W. D. Lovell, Minneapolis, Minn., $17,800; J. W. Zempter, Galveston, $21,748; Livingston & Fields, Freeport, $26,490. Noted Oct. 19.

Idaho, Boise—Post Office—J. A. Wetmore, Act. Superv., Treasury Dept., Washington, D. C., let contract to WELCH BROS. & HANNAMAN, Kalispell, Mont., $32,874. Noted Nov. 2.

Wash., Wenatchee—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., received low bids, (a) limestone, (b) sandstone, from J. Wallin & Co., Tacoma, (a) $78,092, (b) $80,300; Sound Construction and Engineering Co., Seattle, (a) $79,634, (b) $81,634; Henrikson & Co., Seattle, (a) $79,698, (b) $80,798. Noted Oct. 12.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., New York—(Brooklyn)—Dredging—R. A. C. Smith, Comr. Docks, Pier "A," Battery Pl., North River, Manhattan, receiving bids Dec. 4 for dredging at foot of 29th, 30th and 35th St., South Brooklyn.

N. Y., Niagara Falls—Ditch—A. Carr, City Mgr., recommended ditch across lands of Niagara Falls Power Co. along east line Union St. for diversion Pike Creek.

La., Lake Charles—Canal—Taxpayers plan to vote special tax for $250,000 for deepening Calcasieu-Sabine sect. of intercoastal canal. C. E. Going, of Clooney Construction Co., Lake Charles, interested.

Ohio, Cleveland—Dredging—City plans to levy tax for dredging river. About $70,000. R. Hoffman, City Engr.

Ohio, Dayton—Ditch—Montgomery County plans Murr Ditch, Madison Township. About $10,000. Address County Clk., Dayton.

Ill., Homer—Drainage—Grove River Drainage Dist. No. 2, Banks County, plans drainage ditch. J. M. Wood and W. M. Thomas, Homer, interested.

Minn., Duluth—(Official)—Ditch—St. Louis County receiving bids Dec. 9 for County Ditch No. 6 to drain land between Whiteface River on east and St. Louis River on west. About $250,000. O. Halden, Duluth, County Audr. A. J. Bawden, Engr.-in-Charge. Noted Oct. 26.

Minn., Moorhead—Ditch—Bd. Comrs. Clay and Wilkin Counties plan to repair Judicial Ditch No. 1. About $12,000. Address County Clk., Moorhead.

Mo., Marshall—Drainage—Fish Creek Drainage Dist. organized to change channel of Fish Creek to stop overflows. L. Strodtman and John Meyer, Supervs.

Ore., Medford—Irrigation—J. W. Dunlop, Medford, applied to A. Lewis, State Engr., for permission to appropriate waters of Rogue River to irrigate about 17,000 acres. About $200,000.

Bids In and Contracts Awarded

N. Y., New York—(Brooklyn)—(Official)—Dredging—Low bidders (a) dredging Newtown Creek Canal at Metropolitan Ave. Basin near intersection Scott and Metropolitan Ave., (b) Wallabout Canal from Hewes St. to point 1,450 ft. north of Hewes St. were: (a) J. & J. McSpirit, 118 Wayne St., Jersey City, $0.585 per cu.yd., (b) R. G. Packard Co., 133 Greenwich St., Manhattan, $0.80 per cu.yd. Noted Nov. 9.

S. C., Greenwood—Drainage—City let contract 13 mi. drainage canals to C. W. BOYD and H. PARKER, Gastonia.

Miss., Marks—(Official)—Drainage—Comrs. Indian Creek Drainage Dist. let contract 1,665,000 cu.yd. ditch and 737,000 cu.yd. levee to NATIONAL CONTRACTING CO., Alexandria, Minn., about $235,000. Noted Nov. 2.

Ill., Quincy—(Official)—Drainage—Indian Grave Drainage Dist. let contract 1,154,000 cu.yd. ditches for drainage to R. H. & G. A. McWILLIAMS, 1111 McCormick Bldg., Chicago, 8.95c. per cu.yd. levees and channels, 12.45c per cu.yd. Noted Oct. 26.

Iowa, Algona—Ditch—Kossuth County let contract Drainage Ditch No. 138 to GRAETTINGER TILE WORKS, Graettinger, about $7,984.

Iowa, Estherville—Ditch—Emmet County let contract Ditch No. 110 to C. BENSON, $5,734; GRAETTINGER TILE WORKS, Graettinger, Ditch No. 104, $31,159.

Iowa, Garner—Drainage—Hancock, Kossuth and Wright Counties let contract labor for ditches to L. H. THOMPSON, Holmes, $24,479; tile to MONMOUTH CLAY MANUFACTURING CO., Monmouth, Ill., $26,840.

Iowa, Nevada—Ditch—Story County let contract ditch Nevada Township Drainage Dist. No. 71, labor to A. HANSON, Collins, tile to IOWA PIPE AND TILE CO., Des Moines. About $11,000.

Minn., Oliva—Ditch—Renville County received bids tile work for Ditch No. 63 from Northwestern Drainage Co., Grand Rapids, $318,760, and KIRCHER BROS., St. Paul, $325,000. Noted Oct. 5.

Minn., Olivia—Ditch—Renville County received bids Ditch No. 70 from W. B. Bosworth, Ada, $27,000; N. L. Neilson, Fulda, $27,500; C. Sorenson, Slayton, $29,000. Noted Oct. 5.

Minn., Ortonville—(Official)—Ditch—Big Stone County let contract Ditch No. 12 to T. BARR, Correll, about $4,932. Noted Aug. 24.

Minn., Redwood Falls—Ditch—Redwood County let contract tile work Ditch No. 18 to W. C. MARKLAND, Fairmont, $48,100; Ditch No. 17, G. E. GILBERTON & SON, St. James, $61,900; open work for both ditches to NATIONAL CONSTRUCTION CO., 614 Metropolitan Life Bldg., Minneapolis. Noted Oct. 26.

Minn., Windom—Cottonwood County let contract Ditch No. 32 to D. A. LEHART, Mountain Lake, $17,300; Ditch No. 28, N. DANSGARD, Calender, $25,500.

Idaho, Emmett—Drainage—Canyon County Drainage Dist. No. 1 let contract 14 mi. ditching to MANEY BROS. & WELLS, Boise, about $95,000. Noted Oct. 5.

Wash., Seattle—Dredging—City let contract 580,000 cu.yd. dredging Lake Washington Canal to ERICKSON CONSTRUCTION CO., about $110,780.

Ore., Nyssa—Irrigation—Nyssa-Arcadia Irrigation Dist., Malheur County, let contract ditches to MANEY BROS. & CO., Boise, Idaho, $58,567. Noted Feb. 24.

MISCELLANEOUS

Proposed Work

Mass., Boston—Crane—Simpson Bros. Corporation, 166 Devonshire St., plans to purchase a 3- to 5-ton electric traveling crane with or without motors, span 23x5-in. or more.

N. Y., Buffalo—Playground City plans, Bryant St. G. H. Norton, City Engr.

N. Y., New York—(Brooklyn)—(Official)—Elevated Railway—Pub. Ser. Comn. for First Dist., 120 Broadway, Manhattan, receiving bids Nov. 29 for connecting link between New Utrecht Ave. (West End Line) and Culver Rapid Transit R.R., Sect. 1-A, Route 49.

N. Y., New York—(Manhattan)—Stadium—Bd. Estimate appropriated $17,000 for improving Lewisohn Stadium at City College, St. Nicholas Ave. and 139th St. T. A. Storey, Dir. Athletic Activities.

N. Y., New York—(Manhattan)—Station Finish—Pub. Ser. Comn. for First Dist., 120 Broadway, receiving bids Dec. 4 for station finish for 9 stations of Seventh Ave.-Lexington Ave. Rapid Transit R.R.

Penn., Harrisburg—Park—City retained A. W. Brunner, Arch., 101 Park Ave., New York, to make plans for improving Capitol Park. W. H. Manning, Boston, Consult. Arch. M. B. Cowden, City Engr. Noted June 15.

Penn., Knoxville—Park—Borough voted $80,000 bonds.

Penn., Rankin Station—(Braddock post office)—Parks and Playgrounds—Citizens voted $30,000 bonds.

La., New Orleans—Stadium—Tulane University making plans for stadium. F. G. Churchill, New Orleans, Arch. R. Sharp, A. M., Pres.

Ohio, Barberton—Elimination of Grade Crossings—Council passed ordinance to eliminate grade crossing on Center St.

Ohio, Hamilton—Fire Station—City plans, about $12,000. A. L. Egry, Dir. Pub. Safety.

Ohio, Lakewood—Park Improvements—Citizens defeated $75,000 bonds. Noted Oct. 5.

Ohio, Lima—(Official)—River Improvements—City receiving bids Dec. 7 for improving Ottawa River from west line of Main St., City of Lima, to north right-of-way of Erie Railroad Co. northwest quarter of Sect. 1, Shawnee Township, Allen County. A. L. Metheany, Dir. Pub. Ser. C. H. Bryson, City Engr. Noted Nov. 2. (See adv.)

Ohio, Warren—Park—City plans, West Market and Ohio St. H. S. McKibben, City Engr.

Ind., South Bend—Elimination of Grade Crossing—City passed resolution to eliminate tracks of New York Central Lines West of Buffalo from High to Cherry St. F. J. Anderson, City Engr. G. C. Cleveland, St. Clair Ave. and West 3rd St., Cleveland, Engr. Noted Feb. 24.

Mich., Benton Harbor—Park—Citizens defeated $18,000 bonds.

Mich., Flint—Subway—City receiving bids Dec. 1 for 185½ tons structural steel for subway under tracks Pere Marquette R.R. About $50,000. A. Shoecraft, City Engr. Noted June 22.

Ill., Chicago—(Official)—Bathing Beaches—Citizens defeated $2,450,000 bonds for bathing beaches, parks, playgrounds and swimming pools. Noted Oct. 26.

Wis., Superior—(Official)—Dock—Northern Pacific Ry receiving bids Nov. 28 for 600-ft. addition to ore dock. About $175,000. H. E. Stevens, St. Paul, Ch. Engr. Noted Nov. 16.

Iowa, Des Moines—Park Improvements—City plans $115,000 bond issue. K. Kastberg, City Engr.

Minn., Minneapolis—Playground—Playgrounds Comn. of Bd. Park Comrs. recommended city purchase 10-acre site at 39th St. and Park Ave. for playground.

Kan., Winfield—Park Improvements—City election Dec. 5 to vote on $15,000 bonds.

Tex., Dallas—Fire Station—City plans, Bishop Ave. and Davis St.

Tex., Galveston—Seawall—Galveston County plans to extend seawall in east end of Ave. K between 6th and 7th St. U. S. Government to bear part of cost. E. R. Cheesborough, Pres. Galveston Commercial Assoc., interested.

Okla., Oklahoma—Elimination of Grade Crossings—Oklahoma County plans to abolish grade crossings. H. C. Adams, Oklahoma, County Engr.

Calif., Los Angeles—Wharf—Harbor Comn. to borrow $50,000 from general fund of city for wharf for Pacific Steamship Co. H. Hamlin, City Engr.

Calif., Newport Beach—Beach Protection and Jetty Work—City making plans. About $125,000. C. T. Leeds, Central Bldg., Los Angeles, Engr. Noted Oct. 12.

Man., Winnipeg—Cement—R. D. Waugh, Chn. Comrs., 901 Boyd Bldg., receiving bids Nov. 27 for about 200,000 bbl. portland cement.

Bids In and Contracts Awarded

N. Y., New York—(Boroughs of Bronx and Queens)—(Official)—Signal Towers—Pub. Ser. Comn. for First Dist., 120 Broadway, Manhattan, let contract 13 signal towers on River Rd. Ave. and Jerome Ave. extension of Seventh Ave.-Lexington Ave. line, White Plains Rd. line and Queensboro Subway to H. C. STOWE CONSTRUCTION CO., 221 Greenpoint Ave., Brooklyn, $110,650. Noted Nov. 16.

N. Y., New York—(Manhattan)—(Official)—Pier—Riverside Contracting Co., 39 Cortland St. at $42,178, low bidder extending Pier No. 20, foot Chambers St., Contract No. 1420. Noted Nov. 16.

N. Y., New York—(Manhattan)—(Official)—Pier—Riverside Contracting Co., at $33,834, low bidder extending Pier No. 21, foot Duane St., Contract No. 1549. Noted Nov. 16.

Penn., Philadelphia—Comfort Station—City let contract, Cornelius Park, to J. CONNOR, 2848 Frankford Ave., about $6,300. Noted Sept. 7.

Penn., Philadelphia—Park Improvements—City received low bid 22nd and Sedgely St., from Monaghan & Losse, about $25,319.

Penn., Philadelphia—Playground Improvements—City received low bid, C and Indiana Ave., from Mundy Paving and Construction Co., about $14,400. Noted Sept. 14.

Penn., Philadelphia—Playground Improvements—City received low bid, Francis and Shirley St., from M. & J. McHugh, 892 North Markoe St. Noted Sept. 14.

Penn., Philadelphia—Playground Improvements—City received low bid, 6th and Christian St., from Mundy Paving and Construction Co., about $6,200. Noted Sept. 28.

La., New Orleans—Levee—City let contract Wildwood Levee, about 457,000 cu.yd., to O. O. OGDEN, 203 Roumain Bldg., Baton Rouge, 10.23c. per cu.yd.

Ohio, Cleveland—(East Cleveland)—Park Improvements—City let contract to ROWE & GILES, about $14,000.

Ohio, Dayton—Fill—County let contract fill and improvement New Trot Pike to FARRELL & CRAMPTON, about $8,354.

Ohio, Dayton—Levee—Council rejected only bids for widening and strengthening levees on new dam along Miami River. Noted Nov. 16.

Wis., Milwaukee—Animal House—Bd. Park Comrs. let contract, Washington Park, to J. P. JONES, about $55,651. Noted Oct. 26.

Mo., Jefferson City—(Official)—Retaining Wall—City let contract, Monroe St., to J. POPE. Noted Nov. 2.

Tex., Donna—Levee—City let contract Sect. 3 levee to E. CALHOUN & CRANOFOMT, Pharr.

Ont., Preston—(Official)—Subway, Etc.—Council receives bids for steel for subway and bridge about April. Concrete abutments and retaining walls to be built by day labor. C. S. McKenzie, City Engr. Noted Oct. 26.

BUILDINGS

Proposed Work

Maine, Darkharbor—Hotel—Islesboro Inn made plans, 3-story. Evans & Warner, Philadelphia, Arch.

Maine, Islesboro—Hotel—Islesboro Inn Co. making plans, 3-story, 45x200-ft. About $90,000. Evans & Warnes, Witherspoon Bldg., Philadelphia, Penn., Arch.

Vt., Proctor—High School—City making plans, 1-story, 40x110-ft. About $60,000. R. C. Sturgis, 120 Boylston St., Arch.

Mass., Boston—Hotel—Merchants Realty Trust making plans, 7-story. Blackall, Clapp & Whittemore, 20 Beacon St., Boston, Arch.

Mass., Concord—School—Council voted appropriation of $55,000.

Mass., Maynard—Grammar School—Bd. Education making plans, 2-story. About $55,000. E. B. McGirr and H. E. Warren, 6 Beacon St., Boston, Archs. Noted Nov. 2.

Mass., Milton—School—Milton Academy making plans, 3-story. G. F. Sheppard, 14 Kilby St., Boston, Arch.

Mass., New Bedford — School — City making plans, 1-story, 140x200-ft. About $150,000. L. E. Destremps, Theater Bldg., Arch.

Conn., Wethersfield—School—Bd. Education soon receives bids, 1-story, 150x180-ft. About $50,000. Unkelbach & Perry, New Britain, Arch. Noted Oct. 12.

N. Y., Buffalo—Temple—Labor Temple of Buffalo and Vicinity, Inc., 103 Jefferson St., making plans, 6-story. About $100,000. Esenwein & Johnson, Ellicott Sq., Arch.

N. Y., Gouverneur—Church—St. James Congregation making preliminary plans, 1½-story, 55x150-ft. About $65,000. D. D. Kieff, Flower Bldg., Watertown, Arch.

N. Y., Jamestown—Freight Station—Erie R.R. plans. R. S. Parsons, New York, Asst. to Ch. Engr.

N. Y., Kingston—Theater—George Cohan's Kingston Theater Corporation making plans, 1- and 2-story. About $60,000. G. S. Betz, 61 John St., Kingston, Arch.

N. Y., New York—(Bronx)—(Official)—Theater, Store and Office—Soher Realty Co., 15 East 48th

Buildings (Continued)

St., receiving bids for 2-story, 99.4x100-ft. brick at 125 East 125th St. About $60,000. G. M. Pollard, 347 5th Ave., Arch.

N. Y., New York—(Bronx)—C. B. J. Snyder, Supt. School Bldgs., Park Ave. and 59th St., Manhattan, receiving bids Dec. 4 for addition to Public School No. 32, East 183rd St.

N. Y., Orchard Park—Club House—Park Club of Buffalo, 1401 Elmwood Ave., making preliminary plans, 2-story, 55x130-ft. About $50,000. Colson & Hudson, 35 Dun Bldg., Buffalo, Arch. Noted June 22.

N. Y., Rochester—(Official)—Church—Bids received about Feb. 1 for Lake Avenue Baptist Church. About $100,000. Foote, Headly & Carpenter, Carter Bldg., Arch. Noted Oct 5.

N. Y., Syracuse—School—Bd. Education soon lets contract for 2-story. About $250,000. Sacket & Park, 34 Syracuse Savings Bank Bldg., Arch. Noted Aug 24.

N. J., Atlantic City—Hotel—Hotel Dupont made plans, Virginia Ave. and Beach St. Hewitt & Granger, Philadelphia, Arch.

N. J., Trenton—State Bd. Education approved appropriation of $60,000 for administration building for School for Deaf.

N. J., Trenton—Young Men's Hebrew Association making plans for improving building. W. W. Black & Son, Trenton, Arch. Noted Nov. 16.

N. J., Trenton—Church—St. Pauls Methodist Episcopal Congregation making plans, 1- and 3-story, 52x115-ft. About $60,000. G. E Savage, Witherspoon Bldg., Philadelphia, Penn., Arch.

N. J., Woodbridge—Synagogue—Adeth Israel Congregation plans. J. Rauchman, 108 Barron Ave., Pres.

Penn., Biglerville—School—School Bd. making preliminary plans. Hauer & Mowers, Lebanon, Arch.

Penn., Chester—School—Citizens voted $300,000 bonds.

Penn., Chester—City made plans for 2-story, 80x80-ft. building with 2 wings to be used as city hall and police station. C. W. Brazer, 1177 Broadway, New York, Arch.

Penn., Ft. Washington—School and Assembly Hall—Upper Dublin Township making plans, 2-story, stone, about $40,000. C. E. Schermerhorn, Arch.

Penn., Harrisburg—Church and School—Holy Communion Evangelical Lutheran Church plans. About $120,000. H. A. Dempwolf, York, Arch.

Penn., Lancaster—Church and School—Covenant United Brethren Church plans, about $75,000.

Penn., Lititz—Lititz Springs National Bank plans new building in spring.

Penn., Pittsburgh—High School—G. W. Gerwig, Secy, Bd. Education, 725 Fulton Bldg., receives bids Dec. 5 for Westinghouse High School, Monticello St. and Mutland Ave. G. S. Orth & Bro., Farmers Bank Bldg., Arch.

Penn., Reading—Club House—Wyomissing Club soon receives bids, 4-story, 48x132-ft., brick and stone, about $75,000. Duhring, Okie & Ziegler, Bailey Bldg., Philadelphia, Arch. Noted Sept. 28.

Penn., Sharon—Sharon Lodge of Elks plans building. D. W. Christie and R. W. Cohen, Members Bldg. Com.

Penn., Tarentum—Hospital—City plans, about $131,000 available. J. H. Andrews, Steubenville, Ohio, interested.

Penn., Wilkes-Barre—Hospital—City made plans on Division St., 2-story, tile and stucco. T. Podmore, Arch.

Penn., Williamsport—School—Bd Education making plans, 1-story. About $40,000. F. A. Rianhard, Masonic Temple, Arch.

Del., Laurel—Bank—People's National Bank making plans. About $75,000 T. Wells, Pietsch American Bldg., Baltimore, Md., Arch.

Del., Wilmington—Y. M. C A. making plans for new building. About $250,000. E. C. May, Wilmington, Arch.

Md., Baltimore—University School for Boys, Bellona and Gittings Ave., plans 3 buildings. About $60,000. O. Bond and T. G. Machen, Archs.

D. C., Washington—Club House—National Athletic Club plans on New York Ave., between 13th and 14th St. About $650,000.

Va., Richmond—City plans court building About $50,000. R. L. Peters, Pres.

Va., Suffolk—High School—Bd. Education making plans, 2-story, 60x112-ft. About $50,000. R. E Mitchell and P. Hale, Greenwood Bldg., Norfolk, Archs.

N. C., Baden—Lodge and Theater—Aluminum Co. of America made plans, 3-story, 52x124-ft. H E. Kennedy Co., Home Trust Bldg., Pittsburgh, Penn., Arch.

Ga., Augusta—City voted $100,000 bonds to rebuild Tubman High School.

La., Shreveport—Church—Lutheran Congregation plans. I. J. Haag, Pastor.

Ky., Danville—School—Citizens voted $60,000 bonds.

Ky., Louisville—Besten & Langen, 424 South 4th St., making plans for 5-story store building. About $50,000. J. J. Gaffney, 2nd Ave. and R.R. crossing, Arch.

Ky., Louisville—Dormitory—Pendennis Club plans election Nov. 27 to vote on proposition to build 6- or 7-story dormitory. Noted Nov. 16.

Ohio, Cleveland—School—Bd. Education plans addition to Tremont School, Tremont St. and Kenilworth Ave., S. W. About $200,000

Ohio, Cleveland—Union Building and Improvement Co. plans to enlarge Union Bldg. on Euclid Ave. About $150,000. H. T. Jefferson, Arch.

Ohio, Cleveland—Church—First Christian Science Congregation, Cedar Ave. and East 46th St, plans on Euclid Ave. and East Blvd. About $200,000. Hubbell & Benes, 4500 Euclid Ave., Arch.

Ohio, Covington—See item under "Streets and Roads."

Ohio, Dayton—School—Bd. Education soon receives bids, about $150,000. A. Pretzinger and E. P. Musselman, Reibold Bldg., Archs.

Ohio, East Youngstown—Dollar Savings Bank receives bids about Dec. 15 for 1- and 2-story, 50x115-ft. branch building. C. F. Owsley, Arch.

Ohio, Hamilton—(Official)—City Hall—City defeated $300,000 bonds. C. Manny, City Clk. Noted Oct. 26.

Ohio, Salem—Temple—F. and A. M. making plans. About $50,000.

Ohio, Somerset—Grade and High School—Bd. Education receiving bids Dec. 1, 2-story, 95x106-ft. About $40,000. Rusk & Sheets, 608 Brunson Bldg, Columbus, Arch. Noted Nov. 2.

Ohio, Youngstown—Hotel—Realty Trust Co. plans, 16-story, at intersection East Federal St. and Central Sq. About $750,000

Ind., Goshen—Church—First Congregational made plans. About $100,000. Ellwood & Ellwood, Arch.

Ind., Indianapolis—(Official)—High School—City sold $150,000 bonds. Noted Nov 2.

Ind., Miller—Lodge—Eagles Lodge plans. About $50,000.

Ind., Sullivan—Hospital—Sullivan County receiving bids Dec 30. L. Springer, Secy., Bd. Trustees. Noted Nov. 9.

Mich., Ann Arbor—Alumni and Faculty of University of Michigan making plans for 4-story building. About $700,000. Pond & Pond, 64 East Van Buren St., Chicago, Arch.

Mich., Calumet—Hospital—Calumet Public Hospital Association plans new building About $60,000.

Mich., Detroit—Vinton Co. plans 12-story, brick and terra cotta building on Congress St. and Woodward Ave. About $3,000,000. R. B. Vinton, 63 Stimson Pl., Pres.

Mich., Grand Rapids—School—Bd. Education receiving bids Dec. 1, 2-story. About $60,000. H H. Turner, North Division St., Arch.

Mich., Pontiac — Church — First Presbyterian Congregation making preliminary plans, 1-story, 75x132-ft. About $50,000. S. R. Badgley, Wise Bldg., Cleveland, Ohio, Arch.

Ill., Chicago—Theater—Woodlawn Amusement Co. plans, 2-story, brick and concrete, 848-58 63rd Pl., E. About $75,000. C. W. & G. L. Rapp, Arch.

Ill., Westville—High School—Township High School Bd. lets contract soon, 2-story, 80x130-ft. About $50,000. L. F. Steube, Adams Bldg., Danville, Arch.

Wis., Bangor—School—H. Solten, Clk., Joint School Dist No. 6, receiving bids Dec. 7. Chandler & Park, Racine, Arch. Noted Mar. 2.

Wis., Milwaukee—Mitchell St. State Bank, Mitchell St. and 6th Ave., plans 2-story, concrete building. About $75,000. J. T. Johnston, Pres.

Wis., Stevens Point—Science Building—Bd. Normal Regents plans, about $100,000.

Iowa, Cedar Rapids—Dormitory and Dining Hall—Coe College plans, 3-story and basement, fireproof, brick, stone and cement. About $100,000. E. L. Tilton, 52 Vanderbilt Ave., New York, Arch.

Iowa, Des Moines—School—Independent School Dist. receiving bids Dec. 5. A. L. Clinite, Secy. Noted Sept. 7

Iowa, Iowa City—Iowa University plans 2 buildings. About $100,000.

Iowa, Iowa City—School—City receiving bids Dec. 7. About $50,000. G. L. Lockhart, 120 West Washington St., Arch. Noted Oct. 12.

Iowa, Mallard—School—Consolidated School Dist. receiving bids Dec. 15 for 2-story, 70x112-ft About $45,000. Martin & Hoskins, Storm Lake, Arch. Noted Oct. 5.

Minn., Duluth—Hospital—Lakeview Hospital Association plans, 4-story, 80x100-ft; fireproof, concrete. About $50,000. Shurick & Hausen, 400 Torrey Bldg., Arch.

Minn., Minneapolis—Great Northern Ry. plans to enlarge mail and express building on 1st St. About $65,000. A. H. Hogeland, St. Paul, Ch Engr.

Minn., Minneapolis—Sanitorium—J. V. Koester, Arch., 315 Kasota Bldg., making plans, 2-story, 100x350-ft. About $500,000.

Minn., St. Paul—Hotel—Apartment Construction Co. plans, 12-story, brick and rein.-con. About $1,125,000

Minn., South St. Paul—City made plans for Carnegie Library and Community Building. About $40,000. F. H Elberlee, Endicott Bldg., St. Paul, Arch. Noted Oct. 26.

Minn., Wacomia—High School—School Dist. No. 44, Carver County, receiving bids Dec. 1. K T. Snyder, Plymouth Bldg., Minneapolis, Arch. Noted Oct. 5.

Kan., Hugotan—Court House—Stevens County voted $60,000 bonds. Address Clk., Hugotan. Noted Oct. 26.

Kan., Neodesha—School—City election Nov. 28 to vote on $100,000 bonds. Noted Nov. 9.

Kan., Wichita—School—Bd. Education making plans for intermediate high school About $100,000. L. Schmidt, 120 North Market St, Arch. Noted Aug. 10.

Kan., Wichita—Jail—County Comrs. receiving bids about Dec. 15 for 6-story, 40x90-ft., brick, steel and rein.-con. About $100,000. Rose & Peterson, Barker Bl., Kansas City, Arch. Noted Nov. 2.

Neb., Havelock—High School—Bd. Education receiving bids Dec. 8 for 2-story, fireproof and brick. About $75,000. F. B. Young, Secy. W. F. Gernandt, 437 Keeline Bldg., Omaha, Engr. Noted Nov. 16.

Neb., Omaha—City receiving bids Dec. 7 for Clifton Hill Grade School, 45th and Maple St About $110,000. F. W. & E. B. Clarke, Brandis Theater Bldg., Arch. Noted June 29.

Neb., Omaha—City receiving bids Dec. 7 for Yates School. W. T. Bourke, Secy., Bd. Education

Neb., Omaha—Field School—Bd. Education receiving bids Dec. 7. G. B Prince, 1033 New Omaha National Bank Bldg., Arch. Noted Aug. 17.

Neb., Omaha—I. O. O. F. plans lodge building on Douglas St. About $50,000.

S. D., Miller—(Official)—Courthouse and Jail—County defeated bonds. W. E. Morris, Miller, County Clk. Noted Oct. 12.

N. D., Minot—Hospital—Minot Hospital Association plans. About $250,000.

Wyo., Casper—Hotel—Midwest Hotel Co. plans 3-story addition. W. F. Henning, owner.

Mont., Deer Lodge—High School—Citizens voted $60,000 bonds.

Mont., Dillon—Hotel—H. E. Andrus making plans for 3-story, brick. About $100,000. Noted Nov. 9.

Mo., Cameron—Missouri Wesleyan College plans to rebuild Liberal Arts Building, destroyed by fire with loss of $65,000.

Mo., Joplin—J. Ferguson soon receives bids for 3-story, 75x100-ft. office building About $150,000. E. P. Madorie, 832 Reserve Bank Bldg, Kansas City, Arch.

Mo., Maryville—Hotel—Bankers Realty Investment Co., Bee Bldg., Omaha, plans to organize company to build hotel. About $100,000.

Mo., St. Louis—St. Mary's Mission of Episcopal Church plans new building at Hamilton and Ridge Ave. About $75,000.

Mo., St. Louis—City receiving bids Nov. 28 for children's building, 14th St. and Clark Ave. E. R. Kinsey, Pres., Bd. Pub. Ser

Tex., Austin—State Agricultural and Mechanical College receiving bids Nov. 29 for new building. About $75,000. Endress & Watkins, San Antonio, Arch.

Tex., Dallas—Church—Oak Cliff Christian Congregation receiving bids about Dec. 1 for 3-story 70x112-ft. About $40,000. Van Slyke & Woodruff, Ft. Worth, Arch. Noted June 15.

Tex., Paris—(Official)—School—School Bd. receives bids Nov. 29. About $150,000. Sanguinet & Staats, Ft. Worth, Arch. Noted Nov. 9

Tex., Paris—(Official)—High School—City receiving bids Nov. 27, 2-story. E. H. McCuistion, Mayor.

Tex., Waco—(Official)—Hotel—C. C. McBurnett receiving bids about Dec. 31. G. Burnett, Cameron Bldg., Arch.

Okla., Durant—Courthouse and Jail—Bryan County voted $100,000 bonds. Address County Clk., Durant. Noted Oct. 5.

Okla., Frederick—Court House—Tillman County voted $100,000 bonds. Address County Clk., Frederick. Noted Oct. 26.

Okla., Pawhuska—School—Citizens defeated $85,000 bonds.

Okla., Tulsa—Kendall College making plans for building. About $40,000. Schumacker & Atkinson, 520 Mayo Bldg., Arch.

Okla., Woodward—City Hall—Citizens voted $50,000 bonds. H. H. Alexander, City Clk. Noted Oct. 26.

Colo., Denver—E. D Groves, Arch., making plans for 10-story office building. About $500,000.

Wash., Seattle—High School—Bd. Education plans. About $1,083,000.

Ore., Portland—R. L. Glisan, Spalding Bldg., plans 3-story, 110x100-ft. business building at 10th and Burnside St. About $75,000

Calif., Chowchilla—High School—Citizens voted $50,000 bonds. Address Clk., School Bd.

Calif., Fresno—Scottish Rite Masons made plans for cathedral, Van Ness and Olive Ave. About $100,000. Address E. Wilbur.

Calif., Merced—High School—Bd. Education making plans. About $150,000 available. Allison & Allison, Hibernian Bldg., Los Angeles, Arch. Noted June 22.

Buildings (Continued)

Wis., Taycheedah--State Bd. Control, Madison, let contract administration building, at Industrial Home for Women, to APPLETON CONSTRUCTION CO., $54,832; cottage to IMMEL CONSTRUCTION CO., $62,919. Noted Oct. 26.

Iowa, Ida Grove—Hotel—Ida Grove Hotel Co. let contract, 3-story, 75x100-ft., to F. VAN ANTWERP CO., 219 McKnight Bldg., Minneapolis, Minn. About $40,000.

Iowa, Valley Junction—(Official)—High School—Bd. Education, Independent School Dist., let contract to W. F. KUCHARO & CO., Des Mones, $42,813. Noted Oct. 12.

Minn., Wawzata—Club House—Woodhill Country Club let contract, 2-story, 30x120-ft., to PIKE & COOK CO., 416 South 5th St., Wawzata. About $40,000.

Neb., Omaha—University of Omaha let contract building to P. KIEWIT & SONS, 256 Marcy St., about $50,000.

S. D., Veblen—Grade School—Indiana School Dist. let contract, 2-story, 60x80-ft., to F. A. HANCOCK, Morris, Minn. About $40,000.

Mo., Kansas City—Hospital—City received low bids for addition from J. E. Taylor, 711 Ridge Arcade, $69,980, steel frame, and $64,167 for rein.-con. frame. Noted Apr. 20.

Mo., Kansas City—Grinnell College Foundation let contract store and office building on McGee St. to M. CARROLL CO. About $85,000.

Mo., St. Louis—Church—Unitarian Congregation let contract, 2-story, 87x98-ft., to E. C. GERHARD CONSTRUCTION CO., Victoria Bldg., St. Louis. About $70,000.

Calif., Livermore—Hospital—Monson Bros., 1907 Bryan Bldg., San Francisco, submitted low bids for tuberculosis hospital, at $103,729.

Calif., San Francisco—Union Iron Works let contract 3-story office building to LARSON-SAMSON CO., Crocker Bldg., about $157,500.

Calif., Santa Clara—N. Sullivan let contract convent building to LARSON-SAMPSON CO., Crocker Bldg., San Francisco, about $102,700.

N. Y., New York—(Bronx)—(Official)—Conners Bros. Co., Inc., 64 West 88th St., Manhattan, at $146,450, low bidder completing and finishing construction of "Evander Childs High School," East 184th St. and Field Pl. Noted Nov. 16.

N. Y., Potsdam—School—State Normal and Training School rejected bids, 3-story, 170x280-ft. Noted Nov. 16.

N. J., Fairview—School—English Neighborhood School let contract to W. CRONE & SONS, 500 Central Ave., Jersey City. About $53,000.

N. J., Newark—Essex Construction Co., 85 Academy St., lowest bidder, $117,990, for police headquarters.

N. J., Ridgewood—High School—Bd. Education rejected bids. Noted Oct. 26.

Penn., Cresson—State Sanitarium for Tuberculosis let contract additions to F. G. STEWART. About $40,000. Noted Apr. 13.

W. Va., Huntington—High School—Bd. Education let contract to H. PERSUN, about $92,333.

W. Va., Huntington—Congregation of Fifth Ave. Baptist Church let contract building to LONGEST & TESSIER CO., Greensboro, about $97,000.

Ala., Mobile—Club House—Fidelia club let contract, Government and Wilkinson St., to JETTMUTHS CONSTRUCTION CO. About $50,000.

Ohio, Covington—German Mutual Fire Insurance Co. let contract office building, Pike St. and Madison Ave., to J. J. CRAIG. About $100,000.

Ind., South Bend—Hotel—Jefferson Hotel Co. let contract, 4-story, 56x165-ft., to be leased by Van Vokkenburg Bros., Plaza Hotel, Danville, to HOFFMAN CONSTRUCTION CO., Terre Haute. About $40,000. Noted Oct. 26.

Wis., Kenosha—Club House—B. P. O. E. No. 750 let contract to MICHIE CONSTRUCTION CO., 86 Michigan St., Milwaukee, about $100,000 Noted Nov. 16

Calif., San Francisco—Theater—J. R. Saul plans, south line Clement St.

Calif., Visalia—Visalia Elks Lodge plans 3-story. About $55,000. Swartz & Swartz, Visalia, Arch.

Que., Montreal—Theater—Victoria Theatre Co. plans, about $200,000.

Que., Montreal—Church—Tres Saint Redempteur Congregation plans. Address Rev. J. N. Peossrion, 1860 Notre Dame St., E., Pastor.

Ont., Hamilton—Theater—L. Solman, care Royal Alexandra Theater, Toronto, making plans. About $200,000.

Ont., London—Sanitarium—London Health Association making plans, about $100,000. Watt & Blackwell, Bank of Toronto Bldg., Arch.

Ont., London—Hospital—London Health Association making plans for tuberculosis hospital, rein.-con. and brick. About $75,000. Watt & Blackwell, Bank of Toronto Bldg., Arch.

Ont., Trenton—High School—City soon receives bids, about $50,000. H. Mayhew, Chn., School Bd. W. G. Brown, Clyde Bldg., Arch.

Bids In and Contracts Awarded

Maine, Westbrook—Church and School—J. A. Culbert let contract, 2-story, to F. W. CUNNINGHAM & SON, 430 Congress St., Portland.

Mass., Cambridge—Trustees Cambridge Hospital let contract, 1- and 3-story additions, to GASCOIGNE & GODDARD CO., 19 Milk St., Boston.

Mass., Chelsea—School—City let contract, 3-story, 80x200-ft., to F. G. MacDONALD, 164 Dudley St., Roxbury Dist., Boston. About $175,000. Noted Oct. 19.

N. Y., New Hampton—(Official)—Dept. Correction let contract 4-story administration building to FRYMER & HANNA, 25 West 45th St., New York. Noted Oct. 26.

Spain Increases Cement Production—The production of hydraulic cements in Spain has of late increased considerably in order to supply the domestic demand, as imports have fallen off. There are now 9 plants devoted to the making of portland cement, 5 of which are of comparatively recent construction. At present about 350,000 tons of cement are produced annually, and arrangements are under way to bring the output to 500,000 tons. As the domestic consumption of cement amounts to some 450,000 tons annually, a margin will remain for export. In 1913 Spain imported over 90,000 tons of cement, lime of all kinds and puzzolana, while in 1915 this figure decreased to 21,000 tons. Over half of the supply of 1913 came from France and considerable quantities from Austria and England. Judging from the amount imported during the first half of 1916, the whole year will show a marked decrease compared with 1915. Natural cement was produced in Spain in 1914 to the amount of 255,000 tons. Sixty-one plants were in operation, 12 of which were in the Province of Barcelona, 11 in the Balearic Islands and 11 in Gerona, the remainder being in Guipuzcoa, Tarragona, Lerida, Valencia and Huesca, embracing altogether 218 kilns and employing 1,430 hands. Six plants, with 16 kilns and 1,092 hands, produced cements of the portland class yielding 219,000 tons.

Men Wanted to Study Foreign Markets—Ten suitable men are wanted by the Bureau of Foreign and Domestic Commerce to serve as trade commissioners and special agents. They are to investigate foreign markets for American goods and are to be paid a salary not to exceed $10 a day, with all transportation expenses paid and $4 a day extra for subsistence. Examinations to secure the best men will be held in the larger cities of each State on Dec. 6.

The investigations to be conducted by these men are of the greatest importance. They are considered an important step in preparing the country to retain and expand its newly won foreign markets. Men are wanted to undertake the following investigations: Motor vehicles in Russia and the Far East; investment opportunities in Russia; fancy groceries in South America; furniture in South America; metal-working machinery and prime movers in Russia; metal-working machinery and prime movers in Brazil; jewelry and silverware in South America; hardware in Africa, the near East and India; ports and transportation facilities in Russia and the Far East; mineral resources in the Far East.

The duties of appointees to these positions will be to obtain information concerning the demand in foreign markets for the particular commercial line which they are to study, and to present the data obtained in straightforward, readable reports, which will enable American manufacturers and exporters to plan campaigns for the sale of American goods in the markets investigated. Applicants for the South American investigations will be expected to know Spanish and extra credit will be given for Portuguese. For work in Brazil, Portuguese is considered especially desirable. In the investigations including Russia, French is required and an extra credit given for Russian. No foreign language is required for the hardware investigation in Africa, the near East and India, nor for the investigation of the mineral resources in the Far East. No person will be admitted to any of these examinations who has not had previous training which would qualify him as an expert in the particular line to be investigated. This means substantial and responsible experience. An oral test will be given at Washington or some other city before final appointments are made and only those who pass successfully the written examination on Dec. 6 will be asked to present themselves.

Persons who meet the requirements and desire this examination should at once apply for Form 375, stating the title of the examination for which the form is desired, to the United States Civil Service Commission, Washington, D. C.; the secretary of the United States Civil Service Board, post office, Boston, Mass., Philadelphia, Penn., Atlanta, Ga., Cincinnati, Ohio, Chicago, Ill., St. Paul, Minn., Seattle, Wash., San Francisco, Calif.; custom house, New York, N. Y., New Orleans, La.; or old custom house, St. Louis, Mo. Applications should be properly executed and filed with the Commission at Washington in time to arrange for the examination.

Warehouse Facilities are taken up in an interesting manner by the National City Bank of New York in its November publication, from which the following is an abstract: "Memphis was one of the first cities to have good warehouse facilities, the warehouses of the Memphis Terminal Corporation having been opened in 1913. The plant of this corporation covers an area of 170 acres. The buildings are of concrete, equipped with the most extensive sprinkler system in the world, and served by 10 mi. of terminal railway. An overhead monorail system, built on a slight incline, enables one man and a mule to move 4,000 bales of cotton an average distance of ½ mi. daily. This is said to be equal to the work of 100 men, 100 mules and 100 drays under former conditions, when cotton was carted to and from storage houses. The risk of fire is reduced to the minimum, the lowest insurance rates are obtained, and the receipts of the Terminal Corporation are as first-class collateral for loans.

"Another splendid warehousing and terminal system is under development at New Orleans. This system is constructed and operated by the Board of Commissioners of the Port of New Orleans, a public body created under the laws of Louisiana. The plant occupies frontage on the Mississippi River, near the heart of the city, and includes concrete and steel warehouses, a million-bushel grain elevator, wharf houses at which both river and ocean steamers may load and unload, 20 mi. of railroad yards with storage capacity for 2,000 cars, and a belt line of railway giving connection with all the main lines of railway entering the city. Here is a complete coördination of all the agencies of transportation, with ample capacity for storage and complete facilities for handling. Runways and cranes connect every part of the structure, and compresses reduce cotton in transit to the smallest bulk, securing the lowest freight and insurance rates. All weighers, inspectors and samplers of coton are appointed by the New Orleans Cotton Exchange and represent that body. The total public investment in this system is approximately $5,000,000. Before the designs were adopted the latest terminals in New York, Philadelphia, Boston, Liverpool, London, Havre, Hamburg and other ports were studied. Work was begun early in 1915 and a portion of the terminal is now in use. The plan is to provide not only for the storage of the outgoing commodities like cotton and grain, but for coffee, jite, sisal and other standard package commodities.

"The Port of Seattle is a municipal district created by the legislature of the State of Washington, under the management of a Board of Commissioners, and this board has constructed since 1913 six public terminals, including transit sheds, wharves, storage warehouses, grain elevators, etc., fully equipped with all service apparatus at a cost of $6,000,000. They are of the modern fireproof type, and fortunately were partly completed in time to accommodate the flood of trans-Pacific freight moving through Seattle to Vladivostock, and return cargoes from the Orient. A seven-story concrete convertible fruit warehouse and cold storage, capacity 800 cars, and the fresh fish cold-storage plant, 2,000,000 lb. capacity, are nearing completion. The last report of the commission says that the warehouses have been practically filled as fast as completed, 'their peculiar appeal being fair charges, absolute protection to goods, efficient service, freedom from partiality as to railroads, steamships, transfer men or shippers, and the speed and low cost of interchange of commodities due to splendid physical arrangements and latest handling devices. For instance, salmon to the value of over six million dollars has been handled in the present season at two public terminals.'

"The Candler warehouses, which are at Atlanta, are of the most approved type and already represent an investment of $1,000,000, with plans for extensions. This location is in the heart of a great cotton-producing district, and is bound to be of great value to the producers in providing a safe, cheap place of storage, which can be used by them and by local dealers. With such accommodations the South will be able to withhold its cotton crop from the market in the crowded fall season and sell it during the year as it is wanted by the consumers.

"Several of the Southern States within the last 2 years have passed acts providing for bonded public warehouses, and the last appropriation act passed by Congress for the support of the Department of Agriculture at Washington creates a system of warehouse license and inspection under that department. The licensee is required to give bond in such terms and conditions as the Secretary of Agriculture may prescribe, including the requirements of fire insurance, for the protection of those depositing commodities in his care.

"All of these provisions help to perfect the organization and equipment by which commodities are moved from producers to consumers, reduce the risks and cost, and therefore are to be welcomed."

Construction News

RAILWAYS, STEAM AND ELECTRIC

Proposed Work

Massachusetts—Worcester Consolidated Street Railway Co. plans extension from Worcester to Rochdale. H. C. Page, Worcester, Gen. Mgr.

New York—Albany, Southern Railroad Co. plans extension from Albany to Troy. J. E. Hewes, Rensselaer, Gen. Mgr.

New York—New York State Railways Co., Rochester, asked Council for franchise for line to connect with existing double-tracks at Clarissa and Exchange St., thence through Clarissa St. to Plymouth Ave. and in Plymouth Ave. to connect with double-tracks in Clarissa St. and Caledonia Ave. E. J. Cook, Rochester, Gen. Mgr.

New York—Panama Traction Co., Jamestown, recently incorporated with $60,000 capital stock, plans to build and operate railways. N. M. Sanderson, 22 Maurice St., Buffalo, interested.

New Jersey—Public Service Ry. negotiating with Comrs. Hudson County to double-track Belleville Turnpike Line from North Arlington to Kearney. R. E. Danforth, Pub. Ser. Bldg., Newark, Gen. Mgr.

Pennsylvania—Lehigh Valley R R. plans to enlarge westbound freight yards at Coxton. E. B. Ashby, 143 Liberty St., New York, Ch. Engr.

Pennsylvania—Pennsylvania R.R. plans new classification yards at Shocks Mills on Columbia Div. and additional track facilities at Enola. About $440,000. A. C. Shand, Philadelphia, Ch. Engr.

Pennsylvania—Slate Belt Electric St. Ry. plans new line from Windgap to Stroudsburg, about 15 mi. next year. J. Hamilton, Pen Arygl, Gen. Mgr.

Pennsylvania—Steelton & Highspire R.R., controlled by Bethlehem Steel Co., granted charter for 3 mi railway from Steelton Branch of Philadelphia & Reading Ry. to Pennsylvania R.R. at Highspire. C. P. Turner, Harrisburg, and F. A. Robbins, Jr., Steelton, interested. Noted Nov. 16.

Maryland—Surveys being made for connection between Western Maryland Ry. near Glyndon and Pennsylvania R.R. near Cockeysville, about 10 mi. Address H. R. Pratt, Baltimore, Ch. Engr., Western Maryland Ry.

West Virginia—Monongahela Valley Traction Co. making surveys for extension from Fairmont to Pleasant Valley. S. B. Miller, Fairmont, Ch. Engr. Noted Feb. 17.

North Carolina—Madison County Railroad Co. plans line from Druid to Carmen, about 7 mi. W. N. Garrett, Stockhouse, Gen. Mgr.

North Carolina—Northampton & Hertford Railway Co. plans line from Jackson to Ahoskie, 35 mi., and from Gumberry to Pleasant Hill, about 7 mi. W. W. Robertson, Norfolk, Va., Gen. Mgr.

South Carolina—Charleston Consolidated Railway, Gas and Electric Co., Charleston, plans to double-track line from Five Mile House to Navy Yard, 1½ mi. G. H. Waring, Charleston, Gen. Mgr.

Georgia—Bowden Railway Co. plans extension from Bowden to Roanoke, Ala., about 30 mi. W. W. Crews, Bowden, Gen. Mgr.

Tennessee—Oneida & Western Railroad Co. plans extension from Hagerman on White Oak Creek to North Jamestown, about 11 mi. O. H. Anderson, Harriman, Gen. Mgr.

Illinois—Springfield Consolidated Railway Co., Springfield, asked Pub. Utilities Comn. for permission to extend Bergen St. car line, about 1 mi. About $13,000. C. A. Cryster, Springfield, Ch. Engr.

Minnesota—Northern Pacific Ry. plans to double-track line from Rice to Little Falls, about 17 mi. H. E. Stevens, St. Paul, Ch. Engr.

Minnesota—St. Paul Southern Electric Railway Co. plans extending line to Chatfield and Preston, and eventually to Chicago. H. A Genung, Hastings, Ch. Engr.

Missouri—Preliminary surveys being made for interurban electric railway from Jefferson City to Mexico via Fulton, about 45 mi. W. B. McKinley, Pres., Illinois Traction Co., Peoria, Ill., interested. Noted Mar. 16.

Missouri—Manufacturers Railway Co., St. Louis, plans to change system. Project will increase trackage 1½ mi. W. Cotter, 2925 South Broadway, St Louis, Pres. and Gen. Mgr.

Texas—Gulf, Texas & Western Ry. reviving plans for railway from Graford to Palo Pinto County and Ft. Worth via Poolville, Boonville and Springtown. B. B. Cain, Dallas, Gen. Mgr.

Oklahoma—Ingham Lumber Co., Oklahoma, plans line from San Francisco intersection at Antlers to east side Pushmataha County, about 35 mi. S. K. Ingham, Oklahoma, Pres.

Oklahoma—Sand Springs Railway Co. plans extension from Sand Springs to Pawhuska, about 50 mi. H. T. Morrison, Tulsa, Gen. Mgr.

Idaho—Ogden, Logan & Idaho R.R. plans to extend line from Preston to Grace. P. D. Kline, Ogden, Gen. Mgr.

Utah—Salt Lake & Utah Railroad Co. plans to extend line from Salt Lake City into Sanpete Valley. About $1,000,000. W. R. Armstrong, Salt Lake City, Ch. Engr. and Gen. Mgr.

Washington—City, Seattle, election Dec. 2 to vote on $450,000 bonds for belt line railway along water front. J. R. West, Ch. Engr., Port of Seattle. C. E. Remsberg, Secy., Comrs. Noted Apr. 6.

Washington—Puget Sound Traction, Light and Power Co., 800 Sturat Bldg., Seattle, and subsidiary companies plan to spend about $1,250,000 for improvements next year. W. B. Donaldson, Seattle, Pur. Agt.

Oregon—City of Klamath Falls voted $300,000 bonds and Lakeview voted $20,000 bonds to aid building of Oregon, California & Eastern R.R. from Klamath Falls to Sprague River. Keeler Bros., Denver, interested. Noted Nov. 9.

California—Oregon, California & Eastern R R.—See item under "Oregon."

California—San Diego & Arizona Railway Co., San Diego, soon lets contracts for building remaining lines. E. J. Kallright, San Diego, Ch. Engr.

New Brunswick—Canadian Government Rys., St. John, granted permission by Council for spur west of track at foot Charlotte St. C. B. Brown, Moncton, Ch. Engr.

Quebec—Hull Electric Co. plans extending line on Chelsea and Montcalm St. G. Gale, Mgr.

Quebec—Montreal Tramways and Power Co., 78 Craig St., W., plans to extend line on Park Ave. J E. Hutchinson, Montreal, Gen. Mgr.

Ontario—Canadian Northern Railway Co made plans for line along lake shore. M. H. MacLeod, Winnipeg, Ch. Engr. Noted May 18.

Ontario—Ontario Railway and Municipal Bd., Toronto, authorized city to build and Toronto St. Ry. to equip and operate line along Wilton Ave. to Broadview Ave. and north on Broadview Ave. to Gerard Ave. along Gerard Ave. to Carlaw and Guelph and Pape Ave., thence north on Pape Ave. to Danforth Ave. R. J. Fleming, Toronto, Gen. Mgr. Toronto St. Ry.

Bids In and Contracts Awarded

Pennsylvania—Philadelphia, Baltimore & Washington R.R. let contract extending South Chester line from Marcus Hook to Essington, including all incidental work to J. McGRAW CO., Commercial Bldg., Philadelphia.

Ohio—(Official)—Pennsylvania Lines West of Pittsburgh let contract third-tracking line from Leetonia to Salem, including work at yards west of Salem, to J. C. HERNDON & CO., Leetonia. Noted Apr. 6.

West Virginia—Morgantown & Wheeling Ry., Morgantown, let contract interurban railway from Price to Blacksville, 7.45 mi., to H. D. EICHELBERGER, Richmond. Noted Dec. 30.

West Virginia—Pittsburgh, Cincinnati, Chicago & St. Louis Ry. (Pennsylvania Lines West of Pittsburgh, Southwest System), let contract line from Chester, W. Va., to point below Beaver, Penn., to FERGUSON & EDMUNDSON, Pittsburgh. Noted Oct. 12.

Montana—Northern Pacific Ry. let contract line from Billings to Lake Basin, about 32 mi. to GRANT, SMITH & CO., 1505 Pioneer Bldg., St. Paul. Noted Oct. 12.

LIGHT, HEAT AND POWER

Proposed Work

Maine, Lake View—Lake View Electric Co., recently incorporated with capital stock of $5,000, plans electric power plant to supply electricity in Lake View and Brownsville. E. H. Hamlin, Milo, Pres.

Maine, South Berwick—Berwick & Salmon Falls Electric Co., Masonic Bldg., Dover, N. H., plans power plant to include concrete dam about 240 ft. long and 16 ft. high, $100,000. I. Jones, Milton, Engr.

Mass., Leominster—Connecticut River Power Co. secured permission to install transmission line from southwestern part of city to Viscoloid Co.'s plant.

N. Y., Schenectady—Schenectady Illuminating Co has increased capital stock from $3,000,000 to $5,000,000, and plans improving its system.

N. J., Jersey City—Public Service Electric Co plans installing conduit system in Summit Ave

Penn., Philadelphia—Endura Manufacturing Co., Eastwick Ave. and West 63rd St., making plans for 1-story addition to boiler house.

Penn., Philadelphia—L. H. Gilmer Co., Keystone and Cottman St., plans power house. H. C. Eisenbise, Pennsylvania Bldg., Arch.

Penn., York—Bell Motor Car Co., Center St. and Pennsylvania R R., making plans for 1-story boiler house. About $5,000. J. B. Harmon, 48 North Queen St., Lancaster, Arch.

Va., Clarksville—Council plans issuing $7,500 bonds for electric-light system.

W. Va., Fairmont—Owens Bottle Machine Co. making plans for coal gas producing plant. About $300,000.

Ga., Fayetteville—City soon votes on $15,000 bonds for improving electric-lighting system.

Fla., Stuart—G. W. Parkes and associates considering plans for improving hydro-electric plant near Stuart

Tenn., Arlington—City plans electric-light plant and water system. About $10,000. W. A. Taylor, Mayor.

Ky., Alexandria—Business Men's Club organized company to construct and operate an electric-light plant in Alexandria.

Ky., Georgetown—City voted $100,000 bonds for electric-light plant and water system. Noted Oct. 19.

Ky., Murray—City voted $20,000 bonds for electric-light plant. Noted Nov. 2.

Ind., Sullivan—Wabash Valley Utilities Co., recently incorporated, plans power house. H. E. Vondermart, Pres.

Mich., Milliken—Council soon votes on franchise for electric-light system.

Ill., Chicago—City granted permit for a 1-story steel and brick power house at 29th St. and Sacramento Ave. About $120,000. C. W. Kallal, Arch.

Ill., Winnetaka—City plans improving electric-light system.

Wis., Park Falls—Flambeau Paper Co. of Park Falls retained T. W. Orbison, Arch., Appleton, to make plans for power dam, hydro-electric plant and paper mill on Flambeau River, near Park Falls. About $125,000.

Iowa, Dayton—Bd. Railway Comrs. of Iowa granted Town of Dayton franchise for electric transmission line between Harcourt and Dayton.

Iowa, Le Mars—City plans electric-light plant.

Iowa, Shenandoah—City defeated bonds for electric-light plant. Noted Oct. 19.

Minn., Duluth—Great Northern Power Co. will issue bonds for improving and extending system, including electric transmission line from Thomson to Virginia.

Minn., Hutchinson—Hutchinson Gas Co., c/o Gas and Electric Construction Co., receives bids about Mar. 1 for gas plant. About $30,000. E. E Collins, 509 Northwest Bank Bldg., Minneapolis, Pres. Western Gas Construction Co., Ft. Wayne, Engr. Noted Oct. 26.

Minn., St. Cloud—St. Cloud Public Service Co. making plans addition to its plant. C. L. Pillsbury Co, 805 Metropolitan Life Bldg., Consult. Engr.

Kan., Bunker Hill—City plans street-lighting system.

Kan., Moran—City receiving bids for electric-light plant. About $12,000. W. B. Rollins & Co., 239 Midland Bldg., Kansas City, Mo., Engr. Noted Oct. 5.

N. D., Flasher—H Thornberg and J. Bunting granted franchise to install electric-light system

Mo., Bowling Green—Bowling Green Mineral Spring Co. plans to install electric-light plant. J. H. Lynch, 625 Locust St., St. Louis, Arch.

Mo., Joplin—Empire District Electric Co., Joplin, plans improving its Spring River power plant. About $25,000.

Mo., Newton—City plans voting on bonds for electric-light plant.

Mo., Springfield—City voted $4,000 electric-light plant bonds. T. J. Moore, Clk. Noted Nov. 16.

Tex., Brady—City plans to improve electric-light plant.

Tex., Galveston—Galveston Electric Co. plans installing 300-kw. motor-generator in its plant at Galveston.

Okla., Rocky—C. A. Mayhew granted franchise by city to install electric-light plant.

Okla., Verden—City plans to install electric-light plant.

Colo., Ft. Morgan—See item under "Water-Works."

Light, Heat and Power (Continued)

Bids In and Contracts Awarded

Conn., Hartford—Industrial Realty Title and Guarantee Co., 18 Asylum St., let contract 1-story boiler house to WISE & UPSON, 36 Pearl St.

Conn., Waterbury—A. H. Wells Co., Inc., 563 Watertown Ave., let contract power house to H. WALES LINES CO., 134 State St., Meriden. Noted Nov. 23.

Penn., Chester—Beacon Light Co. let contract 1-story power house on Delaware River to CHESTER CONSTRUCTION AND CONTRACTING CO., Chester. About $2,500,000. Noted June 29.

N. C., Madison—City let contract electric-light plant to R. H. MILTON, Greensboro, about $8,000. W. C. Jones, Mayor. Noted Mar. 16.

Ind., Rushville—National Serum Co., 874 Fletcher Ave., let contract boiler house to M. M. WINSHIP, Rushville.

Minn., Sauk Center—City let contract electric-light and power plant to ALLIS-CHALMERS CO., Corn Exchange, Minneapolis, $35,000.

Mo., Joplin—City let contract heating and ventilating system in high school to SMITH & WELLS, Springfield, $37,065.

BRIDGES

Proposed Work

N. J., Flemington—Bd. Freeholders Hunterdon County receiving bids Dec. 7 for 50-ft. span bridge at Sidney, also 1 at Frenchtown. Address Clk., Flemington.

N. J., Highlands—Monmouth County made plans for bridge over Shrewsbury River. About $80,000. J. T. Simpson, 31 Clinton St., Newark, Engr. Noted Nov. 16.

Penn., Knoxville—Borough soon receives bids for 2-span bridge, 85 ft. long, 16-ft. roadway, cost substructure, $7,365; superstructure requires about 15,600 lb. steel, $9,475. G. A. Flink, Harrisburg, Consult. Engr. Noted Nov. 9.

Ga., Bainbridge—Comrs. Decatur County plan new bridge over Flint River at Bainbridge. Address County Clk., Bainbridge.

Fla., Jacksonville—Duval County making plans for rein.-con. bridge over McGirts Creek at Ortega. About $115,000. Ellis, Curtis & Kooker, Jacksonville, Engr.

Fla., Jacksonville—Duval County election in April to vote on $1,000,000 bonds for bridge over St. Johns River. Harrington, Howard & Ash, 1012 Baltimore Ave., Kansas City, Mo., Engr. Noted Oct. 5.

Fla., Miami—(Official)—Comrs. Dade County at office of Clk. of Bd. Comrs., Miami, receiving bids Dec. 14 for Miami Causeway across Biscayne Bay, connecting City of Miami with Town of Miami Beach. Klyce & Kackley, Real Estate Bldg., Civil and Consult. Engr. Noted Sept. 14.

Fla., Moline—Escambia County Comrs. receiving bids Dec. 12 for steel bridge over Escambia River. About $16,000. Address County Clk., Pensacola. Noted July 20.

Miss., Biloxi—Harrison County making plans for bridge. About $50,000. Address County Clk., Biloxi.

Miss., Canton—See item under "Streets and Roads."

Ky., Covington—City plans to convert water main bridge between Latonia and Campbell County into traffic bridge. About $40,000. H. G. Meiners, City Engr.

Ohio, Barberton—City made plans for bridge on Tuscarawas Ave. H. W. Alcorn, City Engr.

Ind., Indianapolis—City making plans for new culvert over Pogue's Run on Michigan St. B. J. T. Jeup, City Engr.

Ind., Shoals—Martin County receiving bids Dec. 4 for 3 steel bridges. L. D. Haga, Shoals, Audr.

Mich., Manistee—Manistee County defeated $6,500 bonds for bridge over Manistee River. Address County Clk., Manistee. Noted Sept. 14.

Ill., Sycamore—Dekalb County plans $1,000,000 bond issue for bridge and road work. Project includes $60,000 for 200-ft. con. bridge and $20,000 for 5 con. bridges. A. Miller, Sycamore, County Rd. Superv.

Wis., Milwaukee—Supreme Court decided Chicago, Milwaukee & St. Paul Railway Co. must improve viaduct over tracks at Blue Mound Rd. crossing. C. F. Loweth, Chicago, Ch. Engr.

Wis., Milwaukee—Comrs. Pub. Wks. plan improving Holton St. Viaduct. About $200,000. G. Staal, City Engr.

Wis., Potter—W. Hoeing, Brillion, receiving bids Dec. 15 for rein.-con. bridge, including seven 40-ft. spans. About $20,000. Noted Oct. 26.

Wis., Rantoul—Calumet County voted for bridge across Manitowoc River. About $20,000. Address County Clk., Cheton.

Iowa, Council Bluffs—City voted $200,000 bonds for free bridge from Council Bluffs to Omaha. Noted July 27.

Iowa, Jefferson—Greene County making plans for 5 bridges. H. W. Thompson, Jefferson, County Engr.

Iowa, Toledo—Tama County making plans for 4 steel bridges. A. R. Hebenstreit, Toledo, County Engr.

Minn., Austin—Mower County plans $120,000 bond issue for 60 bridges. O. J. Simmons, Austin, County Audr.

Minn., Owatonna—Citizens voted $20,000 bonds for bridge over Straight River on Bridge St. Noted Oct. 12.

Minn., St. Paul—Council authorizes Minnesota Transfer Co., Great Northern Ry. and Northern Pacific Ry. to repair middle span of Raymond Ave. Bridge over their tracks. H. E Stevens, St. Paul, Ch. Engr., Northern Pacific Ry.

Neb., St. Paul—Howard County receiving bids Dec. 15 for 3 steel and 3 wooden bridges. K. D. Bahensky, St. Paul, Clk.

Mo., Joplin—Council plans election to vote on bonds for bridge on Pennsylvania Ave. over tracks of Frisco R.R. J. J. McAfee, City Engr.

Mo., Kansas City—Park Bd. plans bridge over Cliff Dr. on Central Ave. traffic way through North Terrace Park. About $40,000. Kansas City Terminal Ry. plans viaduct to extend traffic way over tracks into East Bottoms on Guinotte Ave. J. V. Hanns, Kansas City, Ch. Engr. C. Hill, City Engr.

Tex., Galveston—Galveston County receiving bids Dec. 4 for 4 rein.-con. bridges on Dickinson-Alta Loma Rd. Address County Clk., Galveston. Noted Sept. 14.

Tex., Pinehurst—Montgomery County receiving bids Dec. 4 for 4 rein.-con. bridges on Dickinson-Alta Loma Rd. J. M. Murch, Conroe, County Audr.

Okla., Minco—City plans $60,000 bond issue for bridge over South Canadian River.

Ore., Baker—Baker County plans to spend about $30,000 for bridges next year. I. L. Hoffman, Baker, County Engr.

Ore., Condon—Comrs. Gillam County, Condon, and Sherman County, Moro., plan 310-ft. bridge at McDonald Ferry on Wasco-Pendleton Rd. and 80-ft. bridge to replace Cottonwood Bridge over Day River on Condon Rd. C. E. Hardin, Condon, and W. Heinrichs, Moro, Engrs.

Calif., Eureka—Northwestern Pacific Railroad Co. plans new bridge between Eureka and Arcata. W. Williams, San Francisco, Ch. Engr. Constr.

Calif., Hanford—Kings County receiving bids Dec. 5 for 3 pile-trestle bridges over Cross Creek. E. F. Pickerill, Hanford, County Clk.

Calif., Hanford—Bd. Superv. Kings County making plans for concrete bridge over Last Chance Canal, near Hanford. B. Duffield, Hanford, County Surv.

Calif., Santa Ana—City plans rein.-con. bridge on Hannah St. and 1 on North Main St. About $40,000. C. C. Binebrake, City Engr.

Calif., Ventura—City plans bridge over San Jon Barranca to connect county and state highways.

Calif., Ventura—Ventura County receiving bids Dec. 5 for 48,000 sq.ft. warrenite pavement on bridges in parts of county. J. B. McCloskey, Ventura, County Clk.

Calif., Visalia—Tulare County receiving bids Dec. 5 for 80-ft. concrete bridge over Tule River at Earlimart. Address County Clk., Visalia.

Calif., Visalia—Tulare County receiving bids Dec. 5 for rein.-con. bridge over Deer Creek. Address County Clk., Visalia.

Bids In and Contracts Awarded

Mass., Springfield—City let contract bridge over Little River on Southwick Rd. to WORONOCO CONSTRUCTION CO. About $33,000.

Conn., New Britain—Baker & Lasher, Inc., submitted low bid for concrete bridge on Monroe St. About $4,056.

Penn., Reading—Reading Ry. let contract 2 rein.-con. box bridges to P. J. CAMPION, Mahanoy City.

Md., Elkton—State Rds. Comn. let contract bridge over Litle Elk Creek near Elkton to L. G. DENNEMAN CO., Baltimore, about $17,545.

W. Va., Logan—(Official)—Logan County let contract bridges to PIPES & WATSON, Middlebourne, $66,077, and LUTEN BRIDGE CO., York, Penn., $11,619. Noted Nov. 2.

N. C., Charlotte—Mecklenburg County let contract bridge over Catawba River at Betty's Ford to VIRGINIA BRIDGE AND IRON CO., Roanoke, about $23,171. Noted Nov. 23.

Ind., Washington—City let contract rein.-con. bridge over Niagara River to ONTARIO & NIAGARA CONNECTING BRIDGE CO., about $1,000,000.

Iowa, Waverly—County let contract steel bridge having three 120-ft. spans to ILLINOIS STEEL CO., Jacksonville.

Minn., Faribault—State Highway Comn. let contract bridge No. 2375 to THOMAS & THOMSON, Faribault, about $6,717.

Neb., Fairbury—Jefferson County let contract bridge over Blue River to STANDARD BRIDGE CO., Omaha, about $40,000. Noted Sept. 28.

Mo., St. Louis—City let contract viaduct on St. Charles Rd. to GINDELE CONSTRUCTION CO., 3333 South La Salle St., Chicago.

Okla., Buffalo—Harper County let contract 2 steel bridges to CANTON BRIDGE CO., Wichita, Kan. About $5,365. Noted Oct. 19.

Calif., Bakersfield—Kern County let contract bridges and culverts on Div. 10, Bakersfield-Mojave Rd., to R. SHERER & CO., 750 Pacific Electric Bldg., Los Angeles, about $71,155. Noted Nov. 2.

Calif., Red Bluff—City let contract Oak Creek Bridge to J. A. WITTER, $7,773.

Calif., Santa Barbara—State Highway Comn., Sacramento, let contract bridge over Gaviota Creek, 4th Rd. Dist., to W. M. LEDBETTER, Pacific Electric Bldg., Los Angeles, about $9,450. Noted Nov. 23.

Que., Montreal—City let contract bridge on Church Ave. to J. F. JAGO CO., 37 Mayor St., about $78,900. Noted Nov. 16.

WATER-SUPPLY

Proposed Work

Mass., Lenox—Pub. Ser. Comn. approved plans for reservoir below present Root Reservoir on Richmond Mt. About $87,000. Noted Nov. 23.

Mass., Pittsfield—Bd. Pub. Wks. authorized Council to extend water mains. About $7,000. J. Wise, Supt.

Mass., Spencer—City plans new water mains. E. J. Starr, Supt.

Mass., Springfield—Bd. Pub. Wks. plans to spend $7,000 for water mains. A. E. Martin, Supt.

Conn., Noank—Com. appointed to investigate installation of water system.

N. Y., Yonkers—Bd. Pub. Wks. approved ordinance for 3,000,000-gal. pump in tube well station. E. L. Peere, Supt.

Penn., Franklin—City receiving bids Dec. 2 for rein.-con. pump well. J. G Crawford, City Clk.

W. Va., Barboursville—City and Water and Light Comn. plans to install wooden tank, capacity 20,000 to 30,000 gal.

Fla., Stuart—Southern Utilities Co., Heard National Bank Bldg., granted franchise for water system and electric-light plant.

La., De Ridder—City plans pumping plant. A. Davis, Mayor.

La., Lafayette—City plans water system. About $30,000.

La., Shreveport—City receiving bids Dec. 9 for water-works. About $438,000. W. R. Gross, Supt.

La., Vinton—(Official)—City receiving bids about February for water system. About $20,000. T. H Mandell, Lake Charles, Town Engr. Noted Nov. 16.

Tenn., Arlington—See item under "Light, Heat and Power."

Ky., Georgetown—See item under "Light, Heat and Power."

Ky., Versailles—Plans being made for water system. About $20,000. C. E. Collins, Drexel Bldg., Philadelphia, Penn., Engr. Noted Nov. 2.

Ohio, Akron—City defeated $300,000 bonds for water system. H. H. Frost, Supt. Noted Oct. 5.

Ohio, Cincinnati—City plans $125,000 water bonds. A. D. Blackmore, Supt.

Ohio, Circleville—Bd. Pub. Ser. plans water system and electric-light plant. A. Gampers, 478 West 5th Ave., Columbus, Arch.

Ohio, Girard—City plans extending water main in portion Kline St. J. Gray, Supt.

Ohio, Mansfield—Council made plans for pump at main pumping station.

Ohio, Mt. Vernon—City lets contract in April for water meters. About $20,000. D. G. Pickard, Supt. Noted Oct. 12.

Mich., Ann Arbor—(Official)—Ann Arbor Water Comn. receiving bids Dec. 6 for 360 tons class "C" 16-in. water pipe, 790 tons class "B" 16-in. water pipe, or 220 tons class "C" and 1,085 tons class "B" water pipe, 16-in.

Mich., Otsego—(Official)—City receiving bids Dec. 8 for improving water system. About $30,000. A. H. Smith Engineering Co., Toledo, Ohio, Engr. Noted Nov. 16.

Mich., Pontiac—City plans election in December to vote on bonds for water system. H. L. Weaver, Supt.

Ill., Manlius—Citizens voted bonds for water system.

Ill., Whitehall—Town plans flow line and equipment for water-works. F. L. Wilcox, Syndicate Trust Bldg., St. Louis, Mo., Engr.

Wis., Lodi—Village Bd. soon to receive bids for electrical-driven pump. A. H. Hinds, Supt.

Wis., Nacedah—City made plans for water system. W. G. Kirchoffer, 22 North Carroll St., Madison, Sanitary and Hydraulic Engr.

Wis., Woodville—Village Bd. made plans for water system.

Iowa, Forest City—City will vote Dec. 11 on $15,000 bonds for reservoir and pumping station. J. O. Johnson, Supt. Noted Nov. 2.

Iowa, Laurens—City plans election to vote on bonds for water tank and extending water mains. A. Shaner, Supt.

Water-Works (Continued)

Iowa, Maxwell—City votes Dec. 12 on $15,000 bonds for improving water system. W. J. Cure, Supt. Noted Nov. 16.

Minn., Ironton—City will sell $15,000 water bonds, Dec. 7. E. R. Burns, Clk. Noted Nov. 23.

Minn., Mankato—City receiving bids Dec. 11 for water mains on portion North Main St. H. F. Bloomquist, Supt.

Minn., West Concord—City election Dec. 5 for $8,500 bonds for water-works. R. C. Jones, Recdr.

Kan., Arcadia—City to vote Dec. 7 on $30,000 bonds for water system.

Kan., Moran—City receiving bids for water-works. About $30,000. W. B. Rollins, Midland Bldg, Kansas City, Mo., Engr. Noted Oct. 12.

Neb., Friend—City plans extending water mains in eastern part of city.

Neb., Lincoln—City soon receives bids for well in Van Dorn pumping station. J. A. Kneedson, Supt.

N. D., Churches Ferry—(Official)—City does not plan improving water system as noted in Oct. 26 issue.

Neb., Oconto—Village Bd. plans to improve water system.

N. D., Fargo—City soon receives bids for water main in portion 9th Ave. F. L. Anders, Supt.

Mont., Hinsdale—City plans water system. L. S. Frantz, Supt.

Mont., Livingston—City plans water system. About $225,000 available. E. C. Riss, Supt.

Mo., Bowling Green—Bowling Green Mineral Springs Co. plans water-works. J. H. Lynch, 625 Locust St., St. Louis, Arch.

Mo., Brookfield—City defeated $63,000 bonds for water system. J. W. Lacey, Supt. Noted Nov. 2.

Ark., Eudora—City plans water-works and sewer system. X. A. Kramer, Magnolia, Miss., Engr.

Tex., Brady—City will construct dams at pumping station and at mouth of Bowie Creek. J. M. Lyle, Supt.

Tex., Tyler—City Comn. approved plans for water system.

Okla., Crescent—City plans water-works and sewer systems.

Okla., Frederick—City plans election to vote on $15,000 bonds for water-works. Z. Z. Rogers, Mayor.

Okla., Kaw—City plans election soon for water-works.

Okla., Ponca—City voted $30,000 for water system and sewers. G. G. O'Neill, Supt.

Okla., Tulsa—City Comrs. approved plans for water system and filter plant. About $180,000. M. Y. McFarland, Act. Supt. Noted Aug. 24.

Colo., Boulder—City plans election in April to vote on bonds for extending water pipe line to Upper Caribou Creek. T. E. Barry, Supt.

Colo., Ft. Morgan—Council making plans for improving water and light systems. G. C. Cox, Supt.

Colo., Longmont—Council plans voting on $18,000 water bonds. H. S. Shumaker, Supt.

Idaho, Sandpoint—(Official)—City election to vote on water bonds postponed until spring. Noted Nov. 16.

Utah, Salt Lake City—City receiving bids Dec. 5 for pumping station at 9th North and 11th West St. C. F. Barrett, Supt.

Wash., Everett—City making surveys for storage reservoir in connection with the Sultan River Water Supply Project. R. E. Koon, 875 E. Yamhill St., Portland, Ore., Engr.

Wash., Olympia—Water Com. plans tower on West Side. J. L. Myers, Supt.

Wash., Walla Walla—City will sell $338,000 water bonds, Dec. 5. R. F. McLean, Supt.

Ore., Astoria—City postponed election to vote on $125,000 bonds for reservoir, indefinitely. F. J. Johnson, Mayor. Noted Nov. 16.

Ore., Hermiston—(Official)—City votes Dec. 5 on $7,000 or $8,000 bonds for improving water system. Noted Nov. 16.

Calif., Alhambra—City granted permission by State Railroad Comn., San Francisco, to acquire water plant and distributing system of San Gabriel Water Co. Noted Oct. 12.

Calif., Hanford—City plans to vote on $30,000 bonds for extension to water mains.

Calif., Sunnyvale—City soon votes on $30,000 water bonds. Noted Apr. 20.

Calif., Whittier—City lets contract in December for furnishing pipe and fittings for new mains with service laterals. About $15,000. A. L. Underwood, Supt.

Ont., Levis—Council approved plans for filter plant. About $30,000. Oulmet & Lesege, Montreal, Engr.

Bids In and Contracts Awarded

Va., Norfolk—City let contract for installing water mains, valves and hydrants on Church, Plume, 16½ and 28th St, Loyall's Lane and Llewellyn Ave., to LOUIS LAWSON, Norfolk, $20,328. Noted Oct. 5.

Miss., Coffeyville—City let contract water system to SULLIVAN, LONG & HAGGERTY, Bessemer, Ala., $18,000. Noted Nov. 2.

Ohio, Cincinnati—City let contract 150 tons pipe for water system to UNITED STATES CAST IRON PIPE AND FOUNDRY CO., Cleveland, $4,687.

Ohio, Cleveland—Cromwell Engineering Co.; New Guardian Bldg., let contract for water main to supply Cromwell Co. on East Side river front to OHIO ENGINEERING CO., Lorain, $16,000.

Ohio, Salem—City let contract reservoir at pumping station to F. L. STOFER, Washingtonville, about $17,000. Noted Nov. 23.

Ind., Muncie—Ball Bros. Glass Manufacturing Co. let contract drilling two 10-in. wells to C. KRAUSS & SONS, Pratt and Missouri Ave., Indianapolis.

Mich., Pontiac—City let contract air compressor at water-works to WORTHINGTON PUMP AND MACHINERY CORPORATION, 115 Broadway, New York, $9,950. Noted Nov. 23.

Wis., Madison—(Official)—City let contract enlarging pumping station, including 8,000,000-gal. pumping engine, horizontal cross-compound, to ALLIS-CHALMERS CO., Milwaukee, $32,750. Noted Nov. 9.

Iowa, Lake Mills—City let contract water mains to HAWKEYE SUPPLY CO., Mason City; valves and hydrants to IOWA VALVE CO., Oskaloosa. Noted Nov. 16.

Ark., Walnut Ridge—City let contract for water-works and sewer systems to MORENGO & BURKHAM, Syndicate Trust Bldg., St. Louis, Mo., $80,000. Noted Nov. 9.

Okla., Tulsa—City let contract pumping station to FOGLE CONSTRUCTION CO, Kansas City, Mo., about $5,237. Noted Nov. 2.

Calif., Claremont—Claremont Co-operative Water Co. let contract for 1,500,000-gal. concrete reservoir, 150 ft. diam., 12 ft. deep, to J. L. ACKLAND, 730 Title Insurance Bldg., Los Angeles.

SEWERS

Proposed Work

Vt., St. Albans—City to install sewers in Smith St. by day labor.

Mass., Lowell—City plans sewers in Winthrop Ave. S. Kearney, City Engr.

Conn., Middletown—Council plans sewer system. J. M. Lucey, City Engr.

N. Y., New York—(Richmond)—(Official)—C. D. Van Name, Borough Pres., St. George, New Brighton, receiving bids Dec. 6 for sanitary sewer in portion Oxford Pl.

N. J., Paterson—Bd. Pub. Wks. plans sewers in Jasper, May, Walnut, East 25th St. and Iowa and 21st Ave. H. J. Hardes, City Engr.

N. J., Trenton—City Comn. plans sewer in portion of Quarry St. J. R. Fell, City Engr.

Penn., Butler—City plans sewer in portion Shippan Ave. H. O. Carson, City Engr.

Penn., Greensburg—City voted bonds for disposal plant. J. Neal, City Engr. L. E. Tracy, Pittsburgh, Consult. Engr. Noted May 25.

Penn., Penns Station—City voted $25,000 sewer bonds. Plans made. T. P. Herron, Irwin, Engr. Noted Nov 2.

Penn., Souderton—Borough plans sewer and disposal plant. About $20,000. C. E. Collins, Drexel Bldg., Philadelphia, Engr.

Va., Richmond—City soon to receive bids for 12- and 14-in. sewer in portion 4th St., and sewer in Westwood Ave. C. E. Bolling, City Engr.

W. Va., Parkersburg—City receiving bids Dec. 6 for 8-in. sanitary sewer in portion Vaughan Ave. T. Z. Higgs, City Engr.

S. C., Bishopville—City to vote Dec. 12 on $35,000 sewer bonds. W. L. Parrott, Mayor.

Miss., Biloxi—Council plans for sewer system. E. Glennan, Mayor.

Ky., Richmond—City to vote on sewer bonds in February or March. J. S. Boggs, City Engr. Noted Aug. 17.

Ohio, Bellefontaine—(Official)—Council receiving bids Dec. 8 for 6,000 lin.ft. 8-in. sewer in Staunton Ave. C. A. Inskeep, City Engr. Noted Nov. 16.

Ohio, Bexley—(Columbus post office)—See item under "Streets and Roads."

Ohio, Cincinnati—Council plans issuing $23,200 bonds for sewers in Baltimore Ave. F. Krug, City Engr.

Ohio., Greenville—(Official)—City receiving bids Dec. 14 for 8,000-ft. storm sewer. About $55,565. R. H. Horn, City Engr.

Ohio, Mansfield—Council passed resolution for improving portion of Orange St. sewer. W. J. Hazelton, City Engr.

Ohio, Sebring—Bd. Health authorizes plans made for disposal plant.

Ohio, Wapakoneta—City defeated $20,000 sewer bonds. C. F. Fisher, City Engr.

Mich., Bay City—Council plans sewer system. About $4,500. C. Thompson, City Engr.

Mich., Muskegan Heights—City making plans for sewer system. Hoad & Dekker, Ann Arbor, Engr.

Ill., Berwyn—City making plans for sewers in various streets. About $20,000.

Ill., Chester—City plans sanitary sewers. About $66,000. W. McCarthy, Engr.

Iowa, Des Moines—City making plans for sewer in Grand St. K. Kastberg, City Engr.

Minn., Mankato—City receiving bids Dec. 11 for sanitary sewer portion Vine St. H. F. Blomquist, City Engr.

Minn., St. Paul—Council plans sewers in portions Pascal and White Bear Ave. P. Clausen, City Engr.

Minn., St. Paul—Council approved plans for sewer systems in Morton St., Harvester and Bayard Ave. P. Clausen, City Engr.

Kan., Wichita—City passed ordinance for lateral "A" of Sanitary Sewer No. 13. B. C. Wells, City Engr.

N. D., Fairmount—City plans 16 blocks sewers. L. N. Abbott, Mayor.

N. D., Fargo—(Official)—City receiving bids Dec. 13 for sewers. About $93,000. F. L. Anders, City Engr. Noted Oct. 12.

Mont., Bozeman—City receiving bids Dec. 7 for sanitary sewers in Dist. No 129. C. C. Widener, City Engr.

Mont., Great Falls—City plans sewer in portion 2d alley. T. B. Evanson, City Engr.

Ark., Eudora—See item under "Water-Works."

Tex., El Paso—City votes Dec. 19 on $100,000 bonds for disposal plant or septic tank, $75,000 for storm sewers, $40,000 extending sewers, $40,000 grading streets. G. Espy, City Engr.

Okla., Ponca—See item under "Water-Works."

Okla., Ringling—Council making preliminary plans for sanitary sewer system. About $30,000. W. McIntosh, Oklahoma, Engr.

Utah, Salt Lake City—(Official)—City receiving bids Dec. 5 (extension of date) for pump house for main trunk sewer at 8th, North and 11th West St. G. Snow, Recdr. S. Q. Cannon, City Engr. Noted Nov. 9.

Wash., Everett—Council passed resolution for sewer in portion alley between Hoyt and Rucker Ave. H. Mummy, Jr., City Engr.

Wash., Tacoma—Council adopted resolution for 8-, 12-, 15- and 18-in. sanitary sewers in South 7th and other streets. W. C. Raleigh, City Engr.

Wash., Tacoma—City petitioned Pub. Wks. Dept. for trunk sewer in School Sect. No. 36. W. C. Raleigh, City Engr.

Calif., Berkeley—Council plans sewers. J. J. Jessup, City Engr.

Calif., Eureka—Council authorized plans made for sewers in portions of L and C St. and alley south of Harris St. G. A. Strand, City Engr.

Calif., Oakland—City made plans for sewer in portion of East 11th St. Bids soon. P. G. Brown, City Engr.

Calif., Riverside—City receiving bids Dec. 5 for 6-in. sewer in Eucalyptus Ave. A. P. Campbell, City Engr.

Calif., Stockton—Council plans 2 disposal plants at San Joaquin River. H. S. Compton, City Engr.

Calif., Yuba City—Sutter County soon receives bids for sewer system and paving several streets. Address County Clk., Yuba City.

Ont., Ford—Town plans sewer system. About $113,915. T. A. Murray, 303 Lumsden Bldg., Toronto, Engr.

Ont., Goderick—Council plans sewer in Brittania Rd.

Ont., London—Council plans extending storm and sanitary sewers. H. A. Brazier, City Engr.

Ont., Peterboro—Council passed bylaw authorizing sewer system. About $4,000. R. H. Parsons, City Engr.

Bids In and Contracts Awarded

Maine, Portland—Bd. Pub Wks. let contract sewer in Washington Ave., to R. LEE.

Conn., Waterbury—(Official)—Bd. Pub. Wks. let contract sewers portions of Meriden and Plank Rd., Eastwood and Highland Ave. to SPINACH CONTRACTING CO., Waterbury. Noted Oct. 26.

N. Y., New York—(Manhattan)—(Official)—M. M. Marks, Boro. Pres., Room 2032 Municipal Bldg., received low bid for sewer in portion Spruce St. from Laconia Contracting Co., 835 East 213th St., Bronx. Others too small. Noted Nov. 16.

N. J., Collingswood—City let contract sewers in Remington, Vosbury, 6th and Market St. to A. STUTZER, Collingswood.

N. J., Plainfield—(Official)—City let contract storm sewers to C. A. PETERSON, 1332 George St, Plainfield, $28,361. Noted Nov. 9.

Penn., Linwood—City let contract sewer system to E. H. OLIVER, 615 West 9th St, Chester. Noted Mar. 30

Penn., Meadville—Council let contract sewers in Limber Rd., Lafayette, North, Water, Pine and Henry St. to HARRIS CONSTRUCTION CO and KEYSTONE CONSTRUCTION CO.

Penn., Philadelphia—Dept. Pub. Wks. let contract sewers in portions of streets as follows: Venango and Stokley St., E. PASCUZZI, $50,000 and $48,000; Olney Ave. and 11th St., P. ELLIS, $23,000 and $5,500; Duncannon St., D. DELICE, $23,000; Catherine and 55th St., J. LOMBARDI, $21,000 and $6,700; 7th St., R. P. RYAN, $8,000; 4th St., C. A. CONAN, $7,600.

Penn., Williamsport—City let contract sewers in Court St. and Menne Alley to B. H. CORYELLE.

Sewers (Continued)

Fla., Arcadia—(Official)—City let contract extending sewer system to CROCKETT & ZIMMERMAN CONTRACTING CO., Lakeland, $20,024. Noted Oct. 19.

Ohio, Niles—(Official)—City let contract sewers in Federal, West, Bond and Evans St. to F. GEORGE, Pittsburgh, Penn. Noted Nov. 16.

Mich., Allegan—City let contract sewer in Pine St. to BARNES & O'NEIL.

Mich., Holly—City let contract sewer in Center St. to C. S. BELL & SON.

Wis., Denmark—Village let contract sewer to KISPER & HENRICHS, Kaukauna.

Wis., Fond du Lac—City let contracts sewers as follows: West 2nd and Emma St. to R. BARNETT, 389 4th St.; Oak, South, West Division and West Rees St. to F. ADAMS. Noted Nov. 2.

Wis., Madison—City let contract sanitary sewer system to J. FICKE, Washington Bldg., $12,400.

Wis., Sparta—City let contract sewers in Chester and Condit St. to N. F. PALEN.

Kan., Clay Center—City let contract storm sewer No. 3 to E. D. REED, $17,187.

Mont., Great Falls—City let contract sewers to F. E. EVANS CONSTRUCTION CO., $17,737.

Ark., Walnut Ridge—See item under "Water-Works."

Calif., Stockton—City let contract storm sewers to WHITLOCK & GORRILL, Monadnock Bldg., San Francisco.

GARBAGE

Proposed Work

Va., Newport News—City plans East End and North End garbage disposal plants. About $13,000. T. E. Pearce, City Engr.

Tenn., Chattanooga—Nye Odorless Incinerator Co., Memphis, made proposition to Dept. of Streets and Sewers to construct garbage incinerating plant for $16,000. R. Hooke, City Engr. Noted Mar. 2.

Mo., Joplin—City election soon to vote on $40,000 bonds for garbage disposal plant. R. B. Tyler, M. D., Comr. Health. Noted July 6.

Bids In and Contracts Awarded

Penn., Oil City—Council rejected bids for leasing garbage disposal plant and collecting garbage. B. B. Weber, City Engr. Noted Sept. 21.

Penn., Philadelphia—Dept. Pub. Wks. let contracts cleaning streets as follows: Dist. 1A, J. A. MILLEN, 5512 Vine St., $153,700; Dist. 1B, J. Irwin, 25th and Moore St., $184,300; Dist. 2 and 3, E. H. VARE, Lincoln Bldg., $369,000 and $310,000; Dist. 4A, J. D. DORNEY, 1204 East Montgomery Ave., $183,000; Dist. 4B, H. RUCH, 2212 East Susquehanna Ave., $136,500; Dist. 6, D. McMAHON, Main and Chelton Ave., $233,500; collection of ashes and rubbish, Dist. 4B, BEAM FLETCHER CORPORATION, Pennsylvania Bldg., $79,900; all other bids rejected. New bids. Noted Nov. 23.

STREETS AND ROADS

Proposed Work

Mass., Fitchburg—City plans widening Main St. About $100,000.

Mass., Haverhill—City made plans for improving Fairfield St. L. C. Lawton, City Engr.

Mass., Haverhill—Council granted permit for sidewalks on 14th Ave.

Mass., Springfield—City voted to lay sidewalks on Genessee, Crane, Bartlett, Margaret, Williams, Wilcox, Charles, Union and Howland St. and curbing Chattuck and Crane St. I. H. Clark, City Engr.

N. Y., Huntington—Town Highway Dept. plans to spend $55,000 for repairing and improving highways as follows: General repair, $6,000; oil, $12,000; Park Ave., $2,500; Deer Park Ave., $1,500; Southdown Ave., $2,000; New York Ave., at Huntington Station, $5,000; repairs to permanently improved roads, $20,000; West Shore Rd., $1,000. E. Smith, Town Highway Supt.

N. Y., New York—(Brooklyn)—L. H. Pounds, Boro. Pres., Room 2, Boro. Hall, receiving bids Dec. 6 for furnishing and delivering 30,000 gal. refined asphalt.

N. Y., New York—(Richmond)—C. D. Van Name, Boro. Pres., Boro. Hall, St. George, New Brighton, receiving bids Dec. 4 for regulating and repaving portion of Elliott Ave., concrete.

N. Y., Scotia—State Highway Dept. approved plans for improving portion Sacandaga Rd. C. E. Hoyt, Village Clk.

N. Y., Syracuse—Council passed ordinance for paving Whittier, Euclid Ave. and Allen St., resurfacing Delaware, Gifford St. and Slocum Ave., also sewer in South Salina St. H. A. Allen, City Engr.

N. J., Hackensack—Bd. Freeholders, Bergen County, will issue $608,000 bonds for improving county roads. Address County Clk., Hackensack.

N. J., Hilton—Town plans to pave portion Wellesley St., macadam.

N. J., Newton—Bd. Freeholders, Sussex County, sold $25,572 bonds for macadamizing Newton-Sparta Rd. Address County Clk., Newton. Noted Oct. 26.

N. J., Passaic—Bd. Freeholders, Passaic County, plans improving portion Main Ave. Address County Clk., Paterson.

N. J., Somerville—Bd. Freeholders, Somerset County, receiving bids Dec. 13, for road in Bridgewater Township. F. W. Remsen, Somerville, Dir.

N. J., South Orange—(Official)—Town receives bids next year for paving Wellesley St., macadam. E. R. Arcularius, Clk. Noted Nov. 16.

N. J., West Orange—Town plans to pave Freeman Pl. and Harvard Terrace, macadam. Mead & Taylor, Town Engr.

Penn., Bradford—City voted $80,000 bonds for paving streets. B. A. Wise, City Engr.

Penn., Clearfield—City to spend about $50,000 for paving various streets in spring. E. W. Hess, Engr. Noted July 20.

Penn., Lebanon—City making plans for paving around Quittapahilla Creek, concrete. About $80,000. P. A. Volcker, City Engr.

Penn., Mahanoy City—City voted $70,000 street and fire-department bonds. W. G. Thomas, City Engr.

Penn., Smethport—McKean County voted $750,000 bonds to be used with like amount appropriated by state for 100 mi. roads. Address County Clk., Smethport.

Md. Baltimore—(Official)—Bd. Awards receives bids some time next year for paving various streets, asphalt and block, about $1,000,000. R. K. Compton, Baltimore, Chn. and Consult. Engr. Paving Comn. Noted Nov. 16.

Va., Clarendon—(Official)—Alexandria County election Dec. 12 to vote on about $225,000 bonds for road work. G. H. Rucker, Clarendon, Clk. Noted Nov. 16.

Va., Richmond—Administrative Bd. authorizes city to make plans for roadway from Byrd Park to Bryan Park.

Fla., Arcadia—City sold $90,000 street-improvement bonds. Noted Sept. 14.

Fla., Ft. Lauderdale—Broward County Comrs. receiving bids Dec. 5 for 2 macadam roads in Special Rd. and Bridge Dist. No. 2. H. C. Davis, Ft. Lauderdale, County Engr. Noted Apr. 13.

Fla., Perry—Taylor County receiving bids Dec. 6 for about 86.84 mi. roads. Citizens voted $600;000 bonds. Address County Clk., Perry. Noted Nov. 9.

Fla., Sandford—Seminole County receiving bids Dec. 5 for about 13,700 sq.yd. brick pavement, also 19,500 lin.ft. of 4- to 10-in. curb. L. P. Hagan, Sandford, Chn. Comrs.

Fla., Sebring—De Sota County voted $50,000 road bonds. Address County Clk., Arcade.

Fla., Tampa—City petitioned Street Com.. to pave portion Maxwell Ave. R. D. Martin, City Engr.

Miss., Canton—(Official)—Madison County, Madison Dist., receives bids Dec. 5 for 40 mi. earth roads, 18 mi. to be sand-clay surfaced; also concrete culverts and pine bridge. W. J. Kirkpatrick, 704 Farley Bldg., Birmingham, Ala., Engr.

Miss., Lexington—Holmes County Highway Comn. of Dist. No. 2 receiving bids Dec. 8 for about 50 mi. road. Snowden & Hauser, Jackson, Engr. Noted Apr. 27.

La., Abbeville—Vermillion Parish, 7th Rd. Dist., voted to improve roads.

La., Lake Charles—City receiving bids Dec. 14 for paving Miller Ave., Mill, Pine, Moss and other streets, concrete or brick. E. L. Gorham, City Engr. Noted Aug. 17.

La., Natchitoches—Natchitoches County sold $250,000 bonds for portion Jefferson Highway. Address County Clk., Natchitoches. Noted Sept. 7.

La., Shreveport—Caddo County plans voting on $14,000,000 for 3 highways in Caddo Parish. Address County Clk., Shreveport.

Tenn., Clarksville—Montgomery County sold $50,000 road bonds. Address County Clk., Clarksville. Noted Oct. 26.

Tenn., Murfreesboro—Following counties issued bonds for roads: Montgomery, $100,000; Putnam, $200,000; Franklin, $350,000; White, $90,000; Pickett, $30,000; Van Buren, $50,000; Dickson, $230,000; Robertson, $450,000; Humphreys, $250,000; Davidson, $300,000; Lawrence, $350,000; Unicol, $150,000; Marion, $100,000; Hamilton, $250,000; Bradley, $325,000; Rhea, $250,000; McMinn, $300,000; Monroe, $625,000; Jefferson, $475,000; Greene, $800,000; Fentress, $150,000; Grainger, $200,000; Scott, $200,000; Cumberland, $100,000; Hawkins, $500,000; Roane, $250,000; Knox, $500,000; Hamblen, $375,000; Sullivan, $600,000; Cocke, $400,000; Carter, $400,000; Washington, $50,000; Sevier, $150,000; Claibourne, $365,000; Sequatchie, $50,000; Campbell, $250,000; Union, $150,000; Blount, $600,000; Polk, $300,000; Meigs, $100,000; Anderson, $300,000; Bledsoe, $150,000; Mortan, $250,000; Madison, $500,000; Hardin, $200,000; James, $80,000; Hickman, $200,000. Address County Clk., Murfreesboro.

Ky., Covington—City voted $500,000 street improvement bonds. H. C. Miners, City Engr. Noted Sept. 28.

Ky., Frankfort—Franklin County plans reconstructing pike to Henry County Line. About $30,000. Address County Clk., Franklin.

Ky., Paducah—(Official)—McCracken County will sell $200,000 road and bridge bonds, Dec. 14. J. R. Thompson, Paducah, County Engr.

Ohio, Bellaire—City voted $30,000 bonds for improving roads in York Township.

Ohio, Bexley—(Columbus post office)—Village voted $14,000 street-improvement bonds, and $10,000 sewer bonds. C. A. Miller, Village Clk. Noted Oct. 19.

Ohio, Cambridge—(Official)—City will let contract in March for brick paving. J. M. Dilley, City Engr. Noted Nov. 16.

Ohio, Cicninnati—City made plans for paving Evanston Ave., brick, about $14,697. F. Krug, City Engr.

Ohio, Cincinnati—Hamilton County soon receives bids for improving portion Hamilton Pike, brick, about $164,620. W. H. Boeh, Court House, County Engr.

Ohio, Cincinnati—Council passed ordinance to issue $4,400 bonds for improving Donham Ave. F. Krug, City Engr.

Ohio, Dayton—Montgomery County receives bids about Dec. 10 for paving portion Germantown Pike, concrete or brick. V. Smith, Court House, County Engr.

Ohio, Delaware—Delaware County sold $88,300 road bonds. W. V. Aldrich, Delaware, County Audr. Noted Nov. 9.

Ohio, Diamond—City voted $16,500 road bonds.

Ohio, Elyria—City plans macadam driveways in Cascare Park. C. M. Thebold, City Engr.

Ohio, Lebanon—City making plans for paving portion Mulberry St., brick. About $5,000. W. E. Gustin, City Clk.

Ohio, Lisbon—(Official)—Columbiana County receiving bids Dec. 4 for 6.93 mi. brick and concrete road in Madison Township, about $149,640. H. S. Armstrong, Lisbon, County Highway Supt.

Ohio, Napoleon—Henry and Wood Counties receiving bids Dec. 5 for county line road. Address County Clk., Napoleon.

Ohio, New Boston—City making surveys for grading and paving various streets. Bonds for $28,000 recently sold. G. C. Kinley, 1309 Franklin Ave., Portsmouth, Engr. Noted Aug. 10.

Ohio, Norwalk—Huron County receiving bids Dec. 2 for building inter-county highway, concrete or block; also inter-county highway No. 454, 139, 76, 292 and 63, concrete. C. E. Bloomer, Norwalk, Audr. Noted June 29.

Ohio, Novelty—City voted $14,500 road bonds.

Ohio, Painesville—(Official)—Lake County receiving bids in February or March for 7 mi. brick paving on North Ridge Rd., $75,000; also for 4-mi. brick paving on Lost Nation Rd. G. P. Cummings, County Surv. Noted Nov. 16.

Ohio, Piqua—City receives bids about Dec. 1 for paving portions 1st and 2d St. A. Schroeder, City Engr. Noted Oct. 26.

Ohio, Ravenna—City voted $16,500 road-improvement bonds. W. H. Linton, City Engr.

Ohio, Springfield—City voted $10,000 bonds for improving roads in Lewisbury Township. M. J. Bahin, City Engr.

Ohio, Wauseon—Comrs. Fulton and Henry Counties soon receive bids for 1½ mi. road. C. O. Castle, Fulton, County Engr. Noted July 13.

Ohio, Wilmington—Warren County plans paving streets. Address County Engr., Wilmington.

Ohio, Youngstown—City plans paving portion Oak Hill Ave. F. M. Lillie, City Engr.

Ind., Delphi—Carroll County Comrs. receiving bids Dec. 5 for gravel, concrete or macadam road in Madison Township. H. D. Good, Delphi, Audr.

Ind., English—Crawford County Comrs. receiving bids Dec. 4 for stone road in Sterling Township. J. B. Enlow, English, Audr.

Ind., Greencastle—Putnam County Comrs. receiving bids Dec 4 for gravel roads in Monroe and Madison Township. J. M. Allen, Greencastle, Audr.

Ind., New Albany—Floyd County Comrs. receiving bids Dec. 14 (extension of date) for road in New Albany Township. E. Dupaquier, New Albany, Audr. Noted Nov. 2.

Ind., Rockville—Parke County Comrs. receiving bids Dec. 5 for 5 gravel roads in Adams and Raccoon Township. C. Davis, Rockville, Audr.

Ind., Vincennes—Knox County Comrs. receiving bids Dec. 5 for 7,128-ft. gravel road in Bisseron Township. J. I. Muentzer, Vincennes, Audr.

Ind., Warsaw—Kosciusko County receiving bids Dec. 6 for 2 roads in Van Buren Township. V. D. Mock, Warsaw, Audr.

Mich., Genesee—City voted $1,000,000 road bonds.

Mich., Ironwood—Rd. Comrs. Gagebec County, Bessemer, receiving bids about May 1 for road from Ironwood north to Lake Superior, 6 mi., about $24,000. C. F. Winker, Bessemer, Highway Engr. Noted Nov. 2.

Mich., Marshall—Calhoun County voted $800,000 road bonds. Address County Clk., Marshall. Noted July 13.

Mich., Nashville—(Official)—Village election Dec. 4 to vote on bonds for paving Main St.

Ill., Amboy—Bd. Local Impvts. receiving bids Dec. 19 for curbing, guttering and paving Main St. brick. About $25,000. F. W. Leake, City Engr.

Ill., Berwyn—City making plans for paving portion Riverside Dr., concrete, and Sheldon, Morton, Aurora and Park Ave., macadam, about $42,000. B. S. Strutzenburg, Engr.

Ill., Berwyn—Bd. Local Impvts. receiving bids about Dec. 16 for curbing and paving portions

Streets and Roads (Continued)

Clarence, Kenilworth and Grove Ave., concrete. B. S. Strutzenburg, Engr.

Ill., Cicero—City soon receives bids for paving portion West 16th St., Brick. About $17,279. T. L. Mongrieg, Engr.

Ill., Joliet—Bd. Local Impvts. approved resolution for brick and asphalt paving on portion Marion St. About $28,637. C. D. O'Callahan, City Engr.

Ill., Oak Park—City receives bids about Dec. 1 for paving alley from Lake to Cedar St., brick. W. F. Sargent, Engr. Noted Oct. 19.

Ill., Peoria Heights—Peoria County plans road near Gibson Pathway, between Grand View Dr. and Galena Rd. Address County Clk., Peoria.

Ill., Quincy—Adams County voted $1,800,000 bonds for improving about 283 mi. roads. Noted Mar. 16.

Ill., Riverside—City receiving bids in January for paving portion Forest Ave. C. N. Roberts, 155 North Clark St., Chicago, Engr.

Ill., Sycamore—See item under "Bridges."

Ill., Waukegan—Plans being considered by residents along state line between Illinois and Wisconsin for paved state line road from Mississippi River to Lake Michigan, about 160 mi., asphalt or concrete. J. H. Marseilles, City Clk.

Ill., West Frankfort—Frankfort County making plans for 3 mi. brick roads, Denning Township. A. C. Powell, Benton, Engr.

Wis., Appleton—City plans paving Sherman Pl. A. C. Remley, City Engr.

Wis., New London—City soon receives bids for paving portion Wyman St., concrete. T. R. Alberts, Court House, Green Bay, Engr.

Wis., Stevens Point—City plans paving portion Reserve St., concrete. E. Anthony, City Engr.

Iowa, Des Moines—Council passed resolution to pave portions Corning, Boston and 2d St. and New York Ave. K. Kastberg, City Engr.

Iowa, Maquoketa—Bd. Superv. Jackson County retained C. M. Fisher, Engr., to make plans for grading several roads.

Minn., Ortonville—Bigstone County plans road work in 1917. About $20,000. A. V. Randall, Ortonville, County Audr.

Minn., Wheaton—Traverse County plans to spend $20,000 for roads in 1917. J. T. Erickson, Wheaton, County Audr.

Kan., Erie—Neosho County received no bids for macadamizing roads in Tioga Township. New bids. Address County Clk., Erie.

Kan., Fredonia—Council passed resolutions for paving portions 4th, Adams and Jackson St. R. A. McGregor, City Clk.

Kan., Hutchinson—City plans to pave about 15,000 yd. on 11th St. G. L. McLane, City Engr.

Kan., Larned—City soon lets contract for curbing, paving and guttering about 14 blocks.

Mont., Anaconda—City plans paving 35,000 sq.yd. streets in 1917. W. B. Vestal, Jr., City Engr.

Mo., Fulton—Callaway County plans improving Fulton-Jefferson City Rd. Address County Engr., Fulton.

Mo., Maryville—Nodaway County Court authorizes public road in Jefferson Township. Address County Clk., Maryville.

Mo., St. Joseph—Bd. Pub. Wks. plans grading 4th, 5th, 6th and 7th St. C. P. Hoff, City Engr.

Mo., St. Louis—Bd. Pub. Ser. approved ordinance for widening and paving portion Olive St. About $96,000. E. R. Kinsey, Pres. Bd. Pub. Ser.

Mo., Springfield—City soon receives bids for paving Cherry St., macadam. About $10,000. O. D. Chrisman, City Engr.

Ark., Conway—Faulkner County Comrs. made plans for road from Conway to east line of Faulkner County, through Beryl and Vilona. About $110,371. Address County Clk., Conway.

Tex., Corsicana—Navarro County, Kerens Rd. Dist., voted $150,000 road bonds. Address County Clk., Corsicana. Noted Nov. 2.

Tex., Dallas—City plans paving portion of Neely St. H. Moseley, City Engr.

Tex., Denton—Denton County plans election to vote on $1,000,000 road bonds. Address County Clk., Denton. Noted Nov. 23.

Tex., Dickens—Dickens County Comrs. Precinct No. 4 plans election to vote on $10,000 road bonds. Address County Clk., Dickens.

Tex., Ft. Worth—City plans to pave portion East Terrell Ave., bitulithic. About $46,000. F. J. Von Zuben, City Engr.

Tex., Kountze—Hardin County Dist. No. 1 voted $100,000 road bonds. Address County Clk., Kountze.

Tex., San Antonio—City Comn. receiving bids Dec. 4 for paving portion St. Mary's St. A. C. Pancoast, City Engr.

Tex., Saratoga—Hardin County, Rd. Dist. No. 1, including Saratoga and Batson, voted $100,000 bonds for surfacing roads. Address County Clk., Kountze.

Tex., Wheeler—Comrs. Court, Wheeler County, voted $50,000 bonds for roads. Noted Nov. 2.

Tex., Wichita Falls—Wichita County plans to vote on $700,000 road bonds. Address County Clk., Wichita Falls.

Okla., Ardmore—W. Franklin, B. A. Simpson and others, plan organizing company, with capital stock of $400,000 to construct toll road from Ardmore to 3 oil fields in Carter County.

Okla., Bartlesville—Washington County election Dec. 5 to vote on $600,000 bonds for road improvements. Address County Clk., Bartlesville. Noted Nov. 2.

Okla., Tishomingo—Johnson County defeated $20,000 road bonds. Noted Oct. 5.

Colo., Boulder—Council approved plans for paving streets, concrete. G. R. Joslyn, City Engr.

Colo., Colorado Springs—City made plans for improving curbs and gutters on Nevada Ave. E. F. Mallon, City Engr.

Ariz., Yuma—City making plans for improving highway through Yuma Indian Reservation. About $10,000. L. L. Odle, Supt.

Wash., Blaine—Council passed ordinance for improving Washington Ave. E. E. Pruner, City Clk.

Wash., Hoquiam—Grays Harbor Railway and Light Co. soon receives bids for paving tracks between Riverside Ave. and Monty St.

Wash., Mt. Vernon—City receiving bids Dec. 6 for paving 4th St., N., and Cleveland Ave., 12,920 sq.yd. concrete and 8,730 lin.ft. concrete curb. About $32,000. L. J. Caufield, City Engr. Noted Nov. 16.

Calif., Bakersfield—Kern County receiving bids Dec. 6 for improving 5.75 mi. Bakersfield-Taft Rd., Div. 7, Sect. 3. F. E. Smith, Bakersfield, Clk. Noted June 29.

Calif., Hanford—City plans election to vote on $200,000 bonds for street improvements. E. M. Lynch, Glendale, Engr.

Calif., Huntington Beach—Bd. Superv. Orange County, Santa Ana, receiving bids Dec. 6 for 3 mi. roadway northwest from Huntington Beach. Address Clk., Santa Ana.

Calif., Los Angeles—Council passed resolution to pave several streets and alleys. K. Kastberg, City Engr.

Calif., Oakland—City made plans for improving portion Madison St. P. E. Brown, City Engr.

Calif., Pasadena—City receiving bids Dec. 12 for 48,900 ft. of concrete pavement on Madison Ave. R. B. Orbison, City Engr.

Calif., Redondo Beach—City made plans for concrete highway from Redondo Beach to Torrance. Bids soon. About $33,000.

Calif., San Rafael—Bd. Superv. Marin County receiving bids Dec. 5 for improving Bolinas-San Rafael Highway. About $10,000. R. E. Graham, San Rafael, County Clk. Noted Oct. 26.

Calif., Santa Cruz—Santa Cruz Comrs. making plans for highway system. Address County Clk., Santa Cruz.

Calif., Williams—City plans 400-ft. paving. Address City Clk.

Calif., Woodland—Yolo County plans 110 mi. permanent roads. A. G. Procfor, Woodland, County Surv.

Calif., Yuba City—See item under "Sewers."

Sask., Saskatoon—Council plans to spend about $200,000 for paving next year. C. J. Yorath, Comr.

Bids In and Contracts Awarded

Mass., Boston—City let contract stone sidewalks to CARROLL CONSTRUCTION CO., Brookline.

Mass., Methuen — (Official) — Massachusetts Highway Comn., Boston, received low bids section highway in Methuen from J. Wagenbach & Son, Lawrence, $11,898; Middlesex Construction Co., Medford, $14,067; Perini & Bianchi, Ashland, $14,942. Noted Nov. 16.

N. Y., Albany—(Official)—State Highway Comn. received low bids highways in various counties as follows: Road No. 5636, Schenectady County Line-Guilderland, Albany County, 3.93 mi.—Belmar Contracting Co., Troy, $59,853; Sewage Disposal and Water Plant Co., Schenectady, $61,101. Road No. 1479, Arcade-Farmersville, Part 2, Cattaraugus County, 4.04 mi.—Frank M. Foote, Arcade, $69,579. Road No. 1480, Leon-Wesley, Part 1, Cattaraugus County, 3 mi.—No bids. Road No. 5628, Amenia-Pine Plains, Part 2, Dutchess County, 7.70 mi.—A. T. Moran, New York, $79,270; Kembdt & Washington, Monticello, $79,828; Amos T. Bridges Sons, Inc., Hazardville, Conn., $94,163. Road No. 5634, Evans Center-Farnham, Erie County, 5.29 mi.—No bids. Road No. 5631, Mohawk Village, Columbia and Hammond St., Herkimer County—Newport Construction Co., Herkimer, $41,438; Harry M. Roberts Co., Utica, $41,590; W. Brennan, Herkimer, $41,598. Road No. 1423, Speigletown-Tomahannock Reser, Rensselaer County, 6.34 mi.—No bids. Road No 1424, Stonehouse-North Petersburg-Vermont State Line, Rensselaer County, 4.95 mi.—C. W. Tryon, Poland, $69,453. Road No. 1425, Melrose-Schaghticoke Hill, Rensselaer County, 2.97 mi.—John T. O'Neil, Troy, $37,546. Road No. 1478, Fosterbury-Orange County Line, Sullivan County, 4.01 mi.—Jackson Bros., Cuddebackville, $47,808; Edward P. Abogast, Stroudsburg, Penn., $48,157; F. P. Meckes, Long Pond, Penn., $52,505. Road No. 5337, Whitehall-Dresden Center, Part 2, Washington County, 5.77 mi.—Kennedy Construction Co., Monteral, Que., $146,240. Road No. 1341, Weaver St., Westchester County, 0.35 mi.—Smith Bros. Contracting Co., Pelham, $4,679.

N. Y., Buffalo—City let contract paving Soldiers Pl. to GERMAN ROCK ASPHALT CO., Morgan Bldg., $26,920.

N. Y., New York—(Brooklyn)—(Official)—Borough Asphalt Co., 1301 Metropolitan Ave., at $13,544, low bidder improving portion East 34th St.; Cranford Co., 52 9th St., at $5,080, portion West 15th St. Noted Nov. 16.

N. J., Perth Amboy—Bd. Freeholders Atlantic County let contract rebuilding White Horse Pike to LADELL & PEFEIFFER, Perth Amboy. About $700,000.

Penn., Coatesville—City let contract 5,450-ft. road around shores Rock Run Reservoir to B. G. COON CONSTRUCTION CO., Luzerne, about $10,974. Noted Nov. 16.

Penn., Philadelphia—City let contract paving, asphalt, portion Chelton Ave., to BARBER ASPHALT PAVING CO., 30th and Race St. About $10,687. Noted Nov. 16.

Penn., Philadelphia—Dept. Pub. Wks. let contracts paving as follows: Portions 10th, 11th and Somerville St., vitrified block, to CUNNINGHAM PAVING AND CONSTRUCTION CO., 1345 Arch St., $14,478; Tacony St., asphalt, EASTERN PAVING CO., 1416 South Penn Sq., $10,372; grading portions Haddinton Ave., 64th, 65th and Jefferson St. to MOSS & TAYLOR, 58th and Girard Ave., $36,511; repaving asphalt and granite blocks portion Passyunk Ave. to E. D. VARE, 1120 Race St., $67,691.

Md., Baltimore—State Rds. Comn., 601 Garrett Bldg., let contract paving portion Bayard St., Contract No. BC-28; to AMERICAN PAVING AND CONTRACTING CO., $127,620; Pennsylvania Ave., Contract No. BC-26, to P. FLANIGAN & SONS, $19,028; Hilton St., $35,526; 1 rein.-con. bridge over Little Elk River along State Rd. at western town limits of Elkton, L. G. DINLERMAN & SON, Walkersville, $14,182. Noted Oct. 26.

Mo., Baltimore—State Rd. Comn., 601 Garrett Bldg., let contract road between Church Creek and Talors Island to HOULT-COUST CO., Denton, about $69,265.

W. Va., Wheeling—City let contract portion Bethany Pike and Holiday's Cove Rd. to C. E. HAMILTON, INC., Franklin, Penn., $162,000 and $60,000 respectively.

Fla., Madison—City let contract 4 mi. sidewalk to PAVING AND CONSTRUCTION CO., Tallahassee.

Ala., Gadsden—Etowah County let contract road from bridge near falls to connect with Little Wills Valley Rd., to J. F. MORGAN & CO., about $10,000.

La., Welsh—Jefferson Davis Parish let contract highway work to J. N. GEORGE & SONS, Shreveport, and HEALY CONSTRUCTION CO., Meridian, Miss. About $300,000.

Ky., Ashland—City let contract improving alleys between Greenup and Winchester St., Winchester and Carter St., Central and Bath St. and Montgomery and Lexington St. to HUNT-FORBES CONSTRUCTION CO., Gaylord Bldg., about $40,000.

Ky., Barbourville—Knox County let contract grading road from Bailey's Switch to Corbin, 15 mi., and 2-mi. macadam road to MASON CONSTRUCTION CO., Emanual, about $36,510.

Ohio, Akron—Summit County let contract improving portion Stow-Tallmadge Rd., Tallmadge Township, to McALONAN BROS., Akron, $48,617. Noted Oct. 19.

Ohio, Akron—Summit County let contract improving portion Sagamore Rd. to J. C. DEVINE CO., Alliance, about $14,929. Noted Nov. 9.

Ohio, Cleveland—Heights—(Warrensville post office)—Village let contract paving portion Compton Rd. and Minor Park Rd. to CLEVELAND-TRINIDAD PAVING CO., 420 Lakeside Ave., Cleveland. Noted Nov. 2.

Ohio, Cleveland Heights—(Warrensville post office)—Village let contract paving portion Lancashire Rd. to CLEVELAND-TRINIDAD PAVING CO., 420 Lakeside Ave., Cleveland. Noted Sept. 21.

Ohio, Cleveland Heights—(Official)—Village let contract paving portion Lamberton Rd. to CLEVELAND-TRINIDAD PAVING CO., 402 Lakeside Ave., Cleveland, about $18,120. Noted Nov. 2.

Ohio, Columbus—City let contract paving portion Miller Ave. to ANDREWS ASPHALT PAVING CO., Hamilton. Noted Aug. 3.

Ohio, Hillsboro—Highland County let contract section Stony Point Rd. to H. P. MORROW and C. W. SCOTT.

Ohio, Warren—Trumbull County let contract improving Sect. "R," Youngstown-Sharon Rd., Brookfield Township, to McDERMOTT & HANNON, Niles, about $21,362.

Ohio, Youngstown—City let contract paving portion Perry St. to E. DIORE, Court and Walnut St. Noted Mar. 30.

Ind., Bloomfield—Town Bd. let contract repairing brick streets to J. R. McGANNON.

Ind., Brownstown—Jackson County let contract C. C. Tindar Rd., Hamilton Township, to KATTMANN & HANCOCK.

Ind., Columbia City—(Official)—Whitley County let contract Cornelius Rd. to E. E. LWHMER &

Streets and Roads (Continued)

CO., North Manchester, about $25,686. Noted Oct. 19.

Ind., Hartford—City—City let contract paving North Jefferson St. to HARTMAN, TOWNSEND & HARTMAN.

Ind., Winchester—Randolph County let contract J. B. Barff and C. B. Spitler Rd. to N. L. BRENT CONSTRUCTION CO., Frankfort, about $41,200 and $31,600, respectively.

Ind., Indianapolis—City let contracts improving streets as follows: Portion Cottage Ave. to H. MAAG; 16th St. to LAWSON & BRUCE.

Ill., Chicago—City let contract sidewalks to SIMPSON CONSTRUCTION CO. Noted Nov. 9.

Ill., Dixon—Lee County let contract macadamizing Rock Island Rd. in Nelson Township to ATKINSON & FISCAL.

Ill., Joliet—City let contract sidewalks portion North Chicago St. to NEWKIRK & FRENCH, Joliet.

Ill., Springfield—State Highway Comn. let contract road work to CAMERON, JOYCE & CO., Keokuk, Henry County, Sect. C, $23,711; J. BROGEN, Eldred, Macoupin County, Sect. G, $7,227.

Iowa, Muscatine—City let contract grading Wyoming Hill to J. G. GRIMM, Wapello, $4,348. Noted Aug. 17.

Kan., Cherryvale—City let contract paving portions East 4th, South Galveston and Walnut St. to O'LEARY BROS. Noted Apr. 27.

Ark., Hot Springs—City let contract resurfacing 25,000 sq.yd. on portion Valley and Spring St. and Reserve Ave. to BARBER ASPHALT CO., 30th and Race St., Philadelphia, Penn. About $25,000. Noted June 29.

Tex., Ft. Worth—City let contract grading and paving to TEXAS BITULITHIC CO., Dallas, about $36,500

Tex., Taylor—City let contract paving to GORE PAVING CO. About $50,000. Noted Nov. 16.

Tex., Texarkana—City let contract paving Dist. No. 20 to BURKE CONSTRUCTION CO., Ft. Smith. About $160,000. Noted June 15.

Okla., Norman—City let contract paving West Comanche St. to STRUBLE & MITCHELL, about $35,000.

Okla., Ringling—City let contract 7 mi. highway in Earl Township to J. THOMPSON, Ringling. Noted June 8.

Okla., Sapulpa—City let contract 11 blocks paving to J. E. NOLAN.

Idaho, Pocatello—City let contract paving Arthur and Main St. to R. M. BARSDEN, Butte, $8,000.

Idaho, Pocatello—City let contract paving streets in Dist. No. 18 to J. J. CARROLL, $29,578.

Ariz., Yuma—City let contract paving various streets to SOUTHERN CALIFORNIA CONSTRUCTION CO., about $37,584. Noted Sept. 7.

Ariz., Yuma—City let contract about 235,000 sq.ft. pavement to O. & C. CONSTRUCTION CO., $1.44 per sq.yd.

Wash., Colfax—Whitman County Comrs. let contract permanent highway No. 10 to G. L. STICKLER. About $6,800. Noted Nov. 9.

Wash., North Yakima—Yakima County let contract bituminous concrete payment on several streets to WASHINGTON PAVING CO., Tacoma, $22,000. Noted Oct. 26.

Wash., Seattle—City received low bid paving Ranier Ave. from G. Argentieri & Co., 989 Rainier Ave., $15,343; 11th Ave., N. E., Washington Paving Co., L. C. Smith Bldg., $28,016; concrete walks, grading and sewers in West 65th St., J. L. Smith, $31,535.

Wash., Spokane—City received low bid improving portion Nevada St. from C. M. Payne, 1511 Sprague St., about $19,599. Noted Nov. 2.

Calif., Delano—City let contract paving several miles streets to L. S. ATKINSON, 917 Investment Bldg., Los Angeles, about $22,565. Noted Nov. 16.

Calif., Los Angeles—City let contract paving portion Maple Ave. to CALIFORNIA-ARIZONA CONSTRUCTION CO., 1700 East Washington St., about $23,634. Noted May 25.

Calif., Los Angeles—City let contract improving portion 12th St. to CALIFORNIA ARIZONA CONSTRUCTION CO., 1700 East Washington St., about $31,934.

Calif., Merced—Merced County let contract Bridge No. 47 to W. H. McELROY, Merced, $5,360. Noted Nov. 9.

Calif., San Diego—City received low bid paving portion 8th St. from CALIFORNIA-ARIZONA CONSTRUCTION CO., 1700 East Washington St., Los Angeles, about $5,827.

Calif., San Francisco—City received low bid for improving Phelan Ave. from Blanchard-Brown Co., 660 Market St., San Francisco.

Calif., San Francisco—City let contract concrete curbs, brick and asphalt paving on Genesee St. to FEDERAL CONSTRUCTION CO., Sharon Bldg., San Francisco.

Calif., San Francisco—City let contract sidewalks on portion of Clement St. to A. O. FIELD, 1465 20th St., San Francisco.

Calif., San Francisco—San Francisco County let contract concrete curbs on portion of Elsie St. to TIBBETTS-PACIFIC CO., 16 California St., $7,982.

Calif., San Francisco—San Francisco County let contract improving portion Mangels Ave. to FEDERAL CONSTRUCTION CO., 323 Sharon Bldg., $6,357.

Calif., San Francisco—City let contract paving 47th St. to O. McHUGH. About $8,048.

Calif., Sonora—Tuolumne County received low bids for highway near Jacksonville from G. Williams, $6,295; W. F. Knoop, $6,450. Address County Clk., Sonora.

Calif., Ventura—Ventura County let contract paving 11 mi. Div. 1, Ventura to Santa Paula Rd. to BRASHEAR-BURNS CO., Los Angeles, $39,349. Noted Nov. 23.

Ont., Mitchell—Council let contract cement sidewalks to E. COTE, St. Gregoire Village, $4,715. Noted Sept. 7.

INDUSTRIAL WORKS

Proposed Work

Maine, Van Buren—Aroostook Pulp Co. recently organized, plans plant for manufacture of sulphate of kraft pulp. About $500,000. E. P. Lindsey, Boston, G. Lewis, Holyoke, Mass., and E. M. Blandin, Bath, interested.

Vt., Rutland—Howe Scale Co. plans 2 additions to plant.

Mass., Gardner—J. P. O'Brien Co. plans additions. S. M. Green Co., Springfield, Arch.

Mass., Gloucester—Ipswich Mills, Ipswich, made plans for factory on Maplewood Ave., Gloucester. Noted Aug. 17.

Mass., Mansfield—New England Drawn Steel Co., purchased site and will erect plant.

Mass., Worcester—Silvertown Cycle Manufacturing Co., incorporated with $500,000 capital stock, plans factory for manufacture of bicycles. J. W. Grady & Co., 68 High St., interested.

Mass., Worcester—Valley Woolen Mills plan 2-story, 50x206-ft., brick addition. Cutting, Carleton & Cutting, Chase Bldg., Arch.

R. I., Hillegrove—Rhode Island Malleable Iron Works will build 1-story, 30x87-ft., brick addition.

R. I., Woonsocket—Gold Mark Knitting Co., Railroad St., will build 3-story, 90x170-ft., rein.-con. addition. T. E. Sharkey, Mgr.

N. Y., Buffalo—General Carbonic Gas Co., 886 Seneca St., granted permit for addition to factory. About $10,000. Noted Mar. 16.

N. Y., Dunkirk—Dunkirk Ice and Fuel Co. plans new plant.

N. Y., Fredonia—Giola, Bellanca & Co. making plans for 4-story, 60x100-ft. brick and concrete addition to plant. H. P. Beebe, Arch.

N. Y., New York—(Brooklyn)—(Official)—Shampan & Shampan, 772 Broadway, receiving bids for 1-story, 40x100-ft. brick factory on Scholes St. for A. Luskin, 18 West 26th St., Manhattan. About $30,000.

N. Y., New York—(Brooklyn)—(Official)—Shampan & Shampan, 772 Broadway, receiving bids for 1-story, 90x100-ft. factory at Gardner Ave. and Ingraham St. for W. B. Corporation, 11 McKibbin St. About $48,000.

N. Y., New York—(Brooklyn)—(Official)—D. Reynolds, 101 Fulton St., Manhattan, receiving bids for 2-story, 100x185-ft. rein.-con. factory, Huntington and Smith St. About $120,000. E. Greene, 5 Beekman St., Manhattan, Arch.

N. Y., New York—(Manhattan)—(Official)—J. J. Gillen, 431 West 14th St., receiving bids for 2-story, 98.4x100-ft. brick garage, 412-18 West 15th St. About $45,000. J. S. Maher, 431 West 14th St., Arch.

N. Y., Oswego—State plans temporary warehouse at canal terminal.

N. J., Camden—Victor Talking Machine Co. made plans for 1-story, 77x650-ft. About $200,000. Ballinger & Perrott, 17th and Arch St., Philadelphia, Arch.

N. J., Newark—Fiedler Corporation plans 1-story brick garage at 524-26 Broad St. About $20,000.

N. J., Newark—Marden, Orth & Hastings Co., Plank Rd. and Ave. R, plans 2-story, 70x80-ft. ice plant and storehouse. About $20,000.

N. J., Newark—Standard Oil Co. of New Jersey granted permit for 2-story garage at 94-96½ Ogden St. About $60,000.

N. J., Trenton—Electric Porcelain Manufacturing Co., Monmouth Ave., has taken over building occupied by Climax Pottery Co., New York Ave. Company making plans for 150x127-ft. addition. About $70,000.

Penn., Carrick—(Pittsburgh post office)—Pittsburgh Railway Co. granted permit for car barn at Brownsville and Woodlawn Ave. F. Uhlenhart, Jr., 435 6th Ave., Pittsburgh, Ch. Engr. Noted Jan. 13.

Penn., Franklin—Eclipse Oil Works plans nine 1,000-bbl. stills.

Penn., Franklin—Franklin Foundry Co. plans new addition. About $10,000.

Penn., Lancaster—J. J. Miller making plans for garage and office building 3-story, 86x90-ft., rein.-con. and brick. About $35,000. M. R. Evans, Lancaster, Arch.

Penn., Marietta—Gillaud Laboratories plans factory.

Penn., New Castle—United States Steel Corporation plans new tin mill. About $500,000.

Penn., Philadelphia—(Bridesburg)—Abrasive Material Co. made plans for 3-story crushing plant. Stearns & Castor, Arch.

Penn., Philadelphia—S. Greene, 16th and Arch St., making plans for 7-story, brick, terra-cotta and limestone addition. About $25,000. Stearns & Caster, Stephen Girard Bldg., Philadelphia, Arch.

Penn., Philadelphia—E. Lutz making plans for 1-story, 120x200-ft. factory at 72d St. and Woodland Ave. About $12,000.

Penn., Philadelphia—Security Storage Co., 100 Diamond St., plans 5-story, 40x134-ft. brick and concrete warehouse at 16th and Norris St. About $25,000.

Penn., Philadelphia—Supplee Alderney Dairy Co., 1118 Jefferson St., plans 3-story, 82x82-ft. addition to plant at 3333-37 Ludlow St. About $35,000. C. H. Casper, 48 North 15th St., Engr.

Penn., Philadelphia—Windsor Chocolate Co. purchased plant of Ebert Furniture Co., 6th and Moore St., also new site at Moore and Pierce St. for 4-story, 80x116-ft. rein.-con. factory.

Penn., Philadelphia—Yocum Bros. soon receives bids for 2-story, 41x101-ft. brick factory at Willow and 5th St. About $10,000. G. L. Gerhard & Son, Arch.

Penn., Pittsburgh—Lange Motor Truck Co., 145 South St. Clair St., granted permit for 2-story brick building on Hamilton Ave. About $40,000

Penn., Pittsburgh—Pittsburgh & Lake Erie R.R. granted permit for 1-story warehouse on West Carson St. About $12,500. J. A. Atwood, Terminal Bldg., Pittsburgh, Ch. Engr.

Penn., Red Lion—Ebert Furniture Co. will remove business from Philadelphia to Red Lion where large factory will be built. About $150,000.

Penn., Titusville—Cyclops Steel Works, East Spring St., soon receives bids for additions to plant. Day & Zimmerman, 611 Chestnut St., Philadelphia, Arch.

Penn., Tower City—Bestok Underwear Co., Inc., plans to enlarge plant.

Del., Wilmington—W. Freihofer Baking Co., 20th and Indiana St., Philadelphia, made plans for 4-story addition to bakery at Pennsylvania Ave. and Lincoln St. Peuckert & Wunder, 310 Chestnut St., Philadelphia, Arch. and Engr.

Md., Baltimore—Auto Outing Co. plans 3-story salesroom and garage at 1803-7 north Charles St. About $110,000.

Md., Baltimore—L. Gordon & Son, 228 North Front St., plans 4-story, 32x160-ft. box factory. L. Levi, 1408 Munsey Bldg., Philadelphia, Arch.

Md., Sparrows Point—Aluminum Co. of America plans plant near Sparrows Point. About $8,000,000.

Va., Richmond—Dixie Paper and Pulp Mills plans plant. About $50,000. R. H. Smith, Pres. Planters' National Bank, interested.

W. Va., Charleston—(Official)—E. C. Klipstein receiving bids Dec. 4 for 20-ton refrigerating plant. C. H. Higgins, 30 Church St., New York, Arch.

W. Va., Huntingdon—Huntingdon Clay Products Co., recently organized with $100,000 capital stock, plans tile plant.

N. C., Gastonia—Holland Manufacturing Co. plans enlarging plant.

N. C., Winnsboro—Winnsboro Mills, recently organized to take over Fairfield Mill of Hampton Cotton Mills, plans addition.

Fla., Jacksonville—Florence Citrus Juice and Syrup Co., Lakeland, plans plant at Jacksonville. About $500,000. H. E. Pritchett, interested.

Fla., Jacksonville—Wilson & Co., Chicago, plan branch packing plant on West Bay St.

Fla., Sarasota—G. L. Roberts plans to enlarge shipyards. About $75,000.

Ala., New Decatur—Louisville & Nashville R.R. plans new shops at New Decatur. W. H. Courtnay, Louisville, Ch. Engr.

Ky., South Louisville—(Louisville post office)—Louisville & Nashville R.R. plans new shops at South Louisville. W. H. Courtnay, Louisville, Ch. Engr.

Ohio, Bettsville—Kennedy Refractories Co., Bainbridge, Penn. plans new plant at Bettsville.

Ohio, Bryan—Bryan Pattern and Machine Co. plans factory on Enterprise St. About $25,000. A. S. Culver, Mgr.

Ohio, Cincinnati—(Hyde Park)—City Ice Delivery Co., Race and Canal St., soon receives bids for storage plant, Wasson Rd. and Sunset Ave., Hyde Park. B. T. Wisenall, 617 First National Bank Bldg., Arch.

Ohio, Cincinnati—United States Machine Tool Co., 6th St. and Mt. Hope Rd., plans plant off 6th St. east of Burns St.

Ohio, Cleveland—Acme Box and Lumber Co., 3471 East 49th St., made plans for addition. About $10,000.

Ohio, Cleveland—American Automatic Connector Co., Engrs. Bldg., recently organized with $500,000 capital stock, plans factory. A. L. Moore, Pres.

Ohio, Cleveland—Cleveland Macaroni Co. plans new plant, Wentworth and Shaw Ave. About $250,000.

Ohio, Cleveland—Commercial Motors Co., Leader-News Bldg., plans new plant.

Ohio, Cleveland—Davis Laundry and Cleaning Co., East 66th St., purchased site for addition.

Industrial Works (Continued)

Ohio, Cleveland—Euclid-Doan Co., Euclid and East 105th St., made plans for ice factory. About $50,000. Allen Osborne Co., 957 Osborne Bldg., Arch.

Ohio, Cleveland—Hudson-Stuyvesant Motor Co., 2010 Euclid Ave., granted permit for 5-story addition. About $70,000. Noted Oct. 19.

Ohio, Cleveland—I. Leisy Brewing Co., Vega Ave., made plans for 1-story, 120x172-ft. concrete refrigerating and storage plant at Fulton and Vega Ave. About $85,000.

Ohio, Cleveland—National Tool Co., 1950 West 112th St., granted permit for addition. About $40,000.

Ohio, Cleveland—Scripps Publishing Co., 209 Press Bldg., plans addition to plant on Rockwell St.

Ohio, Cleveland—Standard Oil Co. purchased 6 acres in Colt Rd. for new tank station.

Ohio, Cleveland—U. S. Molding Machine Co., 968 East 69th Pl., increased capital stock from $10,000 to $60,000 and will enlarge plant.

Ohio, Cleveland—J. W. Vanderwerf, 7420 Carnegie Ave., granted permit for 2-story, 44x120-ft., brick factory, at 1738 East 23rd St. About $9,000.

Ohio, Defiance—Standard Oil Co. made plans for plant, 2811 Broadway. About $175,000.

Ohio, Findlay—Findlay Carriage Co. plans to rebuild plant destroyed by fire.

Ohio, Marietta—Marietta Mantel Co., Fort and Wood St., plans factory.

Ohio, Oakharbor—J. Weller Co., Cincinnati, plans to rebuild factory destroyed by fire.

Ohio, Sandusky—Continental Rubber Co., made plans 2-story, 50x300-ft. factory. About $50,000. H. G. Millett, Bliss Bldg., Arch.

Ind., Indianapolis—Swartz Electric Co., opposite Speedway, plans addition. About $20,000.

Ind., Portland—Sheller Wood Rim Manufacturing Co. organized with $25,000 capital to manufacture single-piece wooden rim automobile steering wheels, making plans for plant. A. Sheller and A. F. Blowers interested.

Mich., Detroit—Buhl Stamping Co., 204 Larned St., making plans for plant on east side Scotten Ave. Smith, Hinchman & Grylls, Arch.

Mich., Detroit—Buhl Sons & Co., Wight and Adair St., plans large warehouse.

Mich., Detroit—Cadillac Motor Co., 1343 Cass Ave., plans plant on Scotten Ave. About $750,000.

Mich., Detroit—Dodge Bros., Joseph and Campau Ave., granted permit for addition. About $200,000. Noted June 15.

Mich., Detroit—Michigan Bolt and Nut Works, foot Meldrum Ave., plans 2-story rein.-con. factory at 396-406 Wight St. About $38,550.

Mich., Grand Haven—Keller Pneumatic Tool Co. making plans for new factory. F. P. Allen & Son, Arch. Noted Sept. 28.

Mich., Grand Rapids—Clemens & Gingrich, manufacturer of Blizzard ensilage cutter, plans plant, Homestead Ave. and Cherry St.

Mich., Grand Rapids—Clipper Belt Lacer Co. making plans for 2-story, 65x100-ft. addition to factory on Front Ave. Robinson & Campau, Arch.

Mich., Grand Rapids—Rhodes Manufacturing Co., Bickley ~~St.~~ and Division Ave., making plans for addition. W. G. MacDonald, Arch.

Mich., Petoskey—Wheat Paper Co. plans to rebuild mill recently destroyed by fire.

Ill., Chicago—Central Manufacturing Dist. plans 80 factory buildings, 39th St. between Ashland and Western Ave.

Ill., Chicago—N. C. Farr, 140 South Dearborn St., making plans for factory, 103d St. and Torrence Ave. About $30,000. L. C. Hallberg, 19 South La Salle St., Arch.

Ill., Peoria—Holt Manufacturing Co. plans addition to plant. About $250,000.

Wis., West Allis—Davis Manufacturing Co. making plans for addition to plant.

Minn., Minneapolis—Northrup, King & Co., 26 Hennepin Ave., granted permit for warehouse and cleaning house at 1500-34 Jackson St. About $225,000. Noted Mar. 16.

Minn., St. Paul—Joy Bros. Motor Car Co., 173 East 6th St., purchased site on east side Pleasant Ave. for garage. About $75,000.

Minn., St. Paul—H. Koppers Co., Pittsburgh, Penn., applied for permit for service station and machine shop on east side Hamline Ave. between tracks Great Northern and Northern Pacific Ry. About $17,000. Noted June 22.

Minn., St. Paul—St. Paul & Minneapolis Lumber Co. plans rail and river terminal on upper levee in vicinity bounded by Webster, Oneida, Warsaw and St. Clair St. About $3,000,000. G. R. Nimmons, 310 Northwestern Bank Bldg., Minneapolis, interested.

Minn., St. Paul—M. Zimmerman plans light manufacturing building. Thomas and Aldine St., Midway Dist. About $50,000.

Mo., Kansas City—Ames Farm Dairy, 31st and Gillham Rd., rejected bids for dairy building. New bids. Shepard Farrar & Wiser, 1202 Long Bldg., Arch. Noted Oct. 12.

Mo., St. Louis—Boyd-Welsh Shoe Co., Page and Newstead Ave., made plans for large plant at Newstead and Cook Ave. A. B. Groves, Arch.

Tex., Amarillo—Chicago, Rock Island & Pacific R.R., will build 10-stall roundhouse. C. A. Morse, La Salle St. Station, Chicago, Ch. Engr.

Tex., El Paso—El Paso Sash and Door Co. plans new mill. About $100,000.

Tex., Galveston—Petroleum Refining Corporation plans plant. About $1,500,000.

Colo., Denver—Armour & Co. plans addition to plant. About $500,000.

Colo., Denver—Denver Union Stock Yards Co. plans to improve and enlarge plant. About $250,000.

Ore., Albina—(Portland post office)—Albina Machine Works plans shipbuilding plant on Columbia River.

Ore., Florence—W. Brynd, Florence, interested in project to build shipbuilding plant. About $100,000.

Ore., Oregon City—Crown Willamette Pulp and Paper Co. plans additions to plant in spring.

Ore., Oregon City—Oregon City Woolen Mills plans addition next spring. About $100,000.

Ore., Portland—Northwest Steel Co. plans rolling mill. About $1,000,000. J. W. Bowles, Pres.

Calif., Emeryville—Inlaid Floor Co., 600 Alabama Ave., San Francisco, plans 1-story factory. About $12,845.

Calif., Emeryville—Sedan Calcined Magnesite Co. making plans for 1-story factory. About $50,000.

Calif., Los Angeles—Union Oil Co. plans refinery on Los Angeles Harbor. About $2,500,000.

Calif., Modesto—Southern California Canning Co. of Ontario plans canning factory and can manufacturing plant at Modesto. About $300,000. A. C. Harvey, Pres.

Calif., Watts—Pacific Electric Ry., Pacific Electric Bldg., Los Angeles, plans new car barns at Watts. G. E. Pillsbury, Los Angeles, Ch. Engr.

Bids In and Contracts Awarded

N. H., Manchester—McLane & Taylor, Amoskeag Bank Bldg., let contract warehouse at 606 Willow St. to F. P. BAILEY, 313 Amoskeag Bank Bldg. About $15,000.

Mass., Boston — (South Boston) — American Sugar Refining Co., 131 State St., Boston, to build 4-story, 80x260-ft. refinery in Granite St. by day labor.

Mass., Boston—Revere Sugar Refining Co. let contract for 6 buildings on Mystic River to H. P. CONVERSE CO., 88 Broad St.

Mass., Cambridge—Harvard Square Garage Co. let contract addition and alteration to garage at Mt. Auburn and Dunster St. to I. F. WOODBURY SONS CO., 185 Summer St., Boston. About $50,000.

Mass., Everett—General Electric Co. let contract pattern shop to I. B. WOODBURY SONS CO., 185 Summer St., Boston. About $50,000. Noted Nov. 16.

Mass., Malden—H. Carmichael let contract 3-story, 40x100-ft., brick factory on Center St. to A. W. McLEAN, 195 Medford St., Boston. About $20,000.

Mass., New Bedford—Butler Mill, Ruth Ave., let contract 190x237-ft. addition to weave shed to TURNER CONSTRUCTION CO., 11 Broadway, New York.

Mass., Hudson—Universal Boring Machine Co. let contract addition to factory to T. P. HURLEY, Marlboro.

Mass., Worcester—B. Handleman let contract garage Portland and Salem St. to G. A. FULLER CO., Worcester. About $75,000. Noted July 13.

R. I., Providence—General Electric Co., Hospital St., let contract plant to W. WILLIAMS, Providence. Noted Sept. 21.

Conn., Bridgeport—Electric Cable Co. let contract enlarging and improving plant on Crescent Ave. to T. J. PARDY CONSTRUCTION CO., Bridgeport, about $36,000. Noted June 8.

N. Y., Albany—Eastern Tablet Co. let contract addition to factory to E. A. HIDE, Albany. About $30,000. Noted Apr. 6.

N. Y., Albany—A. Mendelson's Sons, 12 Broadway, let contract 4-story, 129x178-ft. factory to TURNER CONSTRUCTION CO., 11 Broadway. About $80,000. Noted Oct. 5.

N. Y., New York—(Brooklyn)—American Manufacturing Co., 60 2d Ave., let contract 3-story, 100x100-ft. factory, West and Noble St., to TURNER CONSTRUCTION CO., 11 Broadway, New York.

N. Y., North Tonawanda—Herschell-Spillman Co. let contract addition to plant on Sweeney St. to DUROLITHIC CO., North Tonawanda. About $65,000. Noted Oct. 26.

N. Y., Poughkeepsie—Duchess Manufacturing Co. let contract building to KINGSTON & CAMPBELL, 1 Washington St. About $25,000.

N. Y., Rotterdam—Junction—Boston & Maine R.R. let contract roundhouse to H. WALES LINES CO., Meriden, Conn.

N. J., Newark—A. Hollander & Sons, 143 East Kinney St., let contract factory at Ave. D and Emmet St. to P. PELLECCHIA, 21 Mt. Prospect Ave. About $16,000.

N. J., Vineland—New Jersey Home for Feebleminded received low bid for laundry from E. Fay & Sons, 2 South Mole St., Philadelphia, $25,000.

Penn., Harrisburg—Hershey Creamery Co. let contract addition to J. W. POMRANING. $50,000.

Penn., Lebanon—Columbus Chain Co. let contract addition to plant at West End rolling mills, Cumberland St. and Cornwall R.R. to G. MEASE, Reading.

Penn., Milton—American Car and Foundry Co. let contract additions to plant to SAUERS & MOORE. About $100,000.

Penn., Philadelphia—American Ice Co., 6th and Arch St., let contract addition to plant, Washington and Darien St., to MONAGHAN & LOSSE, 214 South 12th St.

Penn., Reading—Dundore Manufacturing Co. let contract 1-story factory, west side Orange St. between Spruce and Bingamon St., to G. A. KOCH, about $15,000.

Penn., Richland—Curtis & Jones Co., Reading, let contract factory to A. J. FINK, 658 Penn St., Reading. About $40,000. Noted May 18.

Penn., Williamsport—Armour & Co. let contract enlarging J. K. Mosser tannery to WESTINGHOUSE, CHURCH, KERR & CO., 37 Wall St., New York. About $60,000. Noted Aug. 3.

Del., Seaford—Greenbaum Bros. let contract 100x160-ft. addition to cannnig plant to L. P. COLBOURN, Salisbury.

Md., Baltimore—Boston Iron and Metal Co. let contract 1-story factory, Tremont and Pratt St., to PRICE CONCRETE CONSTRUCTION CO., 225 St. Paul St.

Md., Sparrows Point—Bethlehem Steel Co. let contract improvements and extensions to plant to DRAVO CONTRACTING CO., Diamond Bank Bldg., Pittsburgh. About $2,000,000.

Va., Winchester—Virginia Woolen Co. to build 118x150-ft. addition by day labor.

W. Va., Charleston—(Official)—E. C. Klipstein & Son let contract for 4-story, 58x120-ft., rein.-con. chemical plant to W. L. CROW CONSTRUCTION CO., 103 Park Ave., New York. Noted Nov. 23.

Ga., Atlanta—Lowenstein Investment Co. let contract 30x450-ft. addition to plant to S. AUS-St. to MACKLE-CRAWFORD CONSTRUCTION CO., Grant Bldg., about $25,000.

Ohio, Alliance—Morgan Engineering Co. let contract 80x450-ft. addition to plant to S. AUSTIN & SONS, 14230 Euclid Ave., Cleveland.

Ohio, Cleveland—Swift & Co. let contract storage building, 80x250-ft., on 65th St., to W. MOORE & CO., 1278 West 4th St.

Ohio, Toledo—Toledo Ice and Coal Co., 1019-1107 Nevada St., let contract factory and storage house to A. BENTLEY & SONS CO., 201 Belmont Ave., about $51,895. Noted Mar. 2.

Ohio, Warren—Trumbull Mazda Lamp Works of General Electric Co. let contract addition to plant on West Market St. to HELLER BROS. CONSTRUCTION CO., Youngstown, about $75,000. Noted Nov. 9.

Ohio, Warren—Trumbull Manufacturing Co. let contract openhearth building to A. McLAUGHLIN & CO., First National Bank Bldg., Pittsburgh. Noted Sept. 28.

Ohio, Youngstown—Youngstown Sheet and Tube Co. let contract additions to plant to McCLINTIC-MARSHALL CONSTRUCTION CO., Oliver Bldg., Pittsburgh, about $4,000,000. Noted Nov. 16.

Mich., Detroit—Michigan Parfay Co., Kresge Bldg., let contract 2-story factory, Forest Ave. and Orleans St., to W. S. POCOCK, 515 Hammond Bldg.

Mich., Detroit—Packard Motor Co., North Grand Blvd. and Detroit Terminal R.R., let contract addition to factories Nos. 27 and 28 to BRYANT & DETWILER CO., 2335 Dime Bank Bldg. Noted Sept. 28.

Mich., Grand Rapids—Overland Auto Co. let contract 3-story garage at Washington and State St. to HAUSER-OWEN-AMES CO. About $65,000.

Mich., Holland—Western Tool Works let contract addition to M. OUDEMOOL. Noted Nov. 16.

Mich., Menominee—Holland Piano Manufacturing Co. let contract 3-story addition to J. A. SCHAFRE.

Ill., Chicago—Ajax Foeye Co., 2499 Blue Island Ave., let contract 1-story brick factory at 2525-43 South Hayne St. to J. R. SCHUTZNER, Chicago. About $25,000.

Ill., Chicago—W. H. Barry, 6810 Lakewood Ave., let contract 1-story factory to REIDENOUER & ERIKSON, 535 East 47th St., about $35,000.

Ill., Chicago—Crane Co., 4100 Kedzie Ave., let contract 2-story brick machine shop to LANQUIST & ILLSLEY CO., 1100 North Clark St. About $65,000.

Ill., Chicago—Lincoln Ave. Products Co., 42d St., let contract factory at 2633-43 Wall St., to W. SPROUL CO., 1120 West 35th St., about $75,000.

Ill., Chicago — F. Mesce, 322 Harris Bldg., let contract garage to D. MAGNUSON & SON, about $20,000.

Ill., Chicago—Sherwin-Williams Co., 115th and Kensington St., let contract 2-story factory at 504-56 Kensington St. to S. SOLLETT CO., 79 East Adams St. About $14,000.

Wis., Milwaukee—E. R. Godfrey & Sons Co., Jackson St., let contract 4-story warehouse to E. STEIGERWALD, 3607 Vliet St.

Mo., St. Joseph—Larabee Flour Mills Association, Wichita, Kan., let contract mill to ALLIS-CHALMERS CO., West Allis. About $750,000. Noted Nov. 9.

Industrial Works (Continued)

Mo., St. Louis—Wagner Electric Manufacturing Co., 6400 Plymouth Ave., let contract 5-story addition to W. M. SUTHERLAND BUILDING AND CONSTRUCTION CO., 4th and Washington Ave. Noted Feb. 17.

Tex., San Antonio—Gotham Film Corp., 1457 Broadway, New York, let contract for film manufacturing plant to J. P. McDONALD, Austin. About $350,000. Noted Nov. 9.

Utah, Moroni—G. E. Browning let contract sugar factory to J. STEWART & CO., 110 South La Salle St., Chicago.

Wash., North Yakima—J. M. Perry & Co. let contract addition to cold-storage plant to H. C. NEAD. About $50,000. Noted Nov. 23.

Calif., Los Angeles—H. W. O'Melveny let contract garage, 12th and Figueroa St., to MILWAUKEE BUILDING SUPPLY CO., 1006 Pabst Bldg., Milwaukee, about $29,921.

FEDERAL GOVERNMENT WORK

Proposed Work

N. H., Laconia—Building—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Dec. 27.

N. Y., New York—Buckets—Bureau of Supplies and Accounts, Navy Dept., Washington, soon receives bids for furnishing at Navy Yard, Brooklyn, under Schedule 443, 9,500 galvanized-steel buckets.

N. Y., New York—Chain—Bureau of Supplies and Accounts, Navy Dept., Washington, soon receives bids for furnishing under Schedule 444 at Navy Yard, Brooklyn, 12,000 lb. black iron chain and 3,500-ft. coil w.-i. galvanized chain.

N. Y., New York—Shovels—Bureau of Supplies and Accounts, Navy Dept., Washington, soon receives bids for furnishing under Schedule 446 at Navy Yard, Brooklyn, 1,902 scoop shovels.

N. Y., New York—Timber Groins and Sea Wall—U. S. Engr. Office, 802 Army Bldg., New York, receiving bids Dec. 1, near southern boundary of Sandy Hook Reservation, N. J.

Penn., Philadelphia—Pump—U. S. Marine Corps, Quartermaster's Dept., Philadelphia, receiving bids Dec. 6.

D. C., Washington—Rope—Bids will soon be received by Bureau of Supplies and Accounts, Navy Dept., Washington, for furnishing under Schedule 434, f.o.b. works, 208,725 lb. steel wire rope.

Va., Norfolk—Asphalt—Bureau of Supplies and Accounts, Navy Dept., Washington, soon receives bids for furnishing at Navy Yard, Norfolk, under Schedule 423, 125,000 lb. paving asphalt, 160,000 lb. Trinidad asphalt and 70,000 lb. Val de Travers asphalt.

W. Va., Wheeling—Forgings, Etc.—U. S. Engr. Office, Wheeling, W. Va., receiving bids Dec. 8 for horses, props, etc., for Dams Nos. 21 and 22, Ohio River.

Miss., Gulfport—Lighting Plant and Windlass—Commanding Officer, Coast and Geodetic Survey, Gulfport, receiving bids Dec. 2, on U. S. Coast and Geodetic Survey Steamer "Hydrographer."

La., New Orleans—Post Office—Bids received Nov. 17 for remodeling post office from Hanna & Mitchell, New Orleans, $284,402; J. G. Unkefer & Co., Minerva, $289,704; W. H. Maxwell, Lakeside, Wash., $309,000.

Ill., Mt. Carmel—Custodian Office, U. S. Public Building, Laconia, receiving bids Dec. 6.

Ill., Rock Island—Building—Commanding Officer, Rock Island Arsenal, receiving bids Dec. 16 for stone-faced addition to barrack building.

Okla., Oklahoma—Building—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Dec. 27.

Colo., Denver—Gates and Stands—U. S. Reclamation Service, Washington, D. C., receiving bids Dec. 20 for Rio Grande Project, New Mexico-Texas.

Ariz., Yuma—Stone Work—U. S. Engr. Office, Los Angeles, Calif., receiving bids Dec. 15, for riveting with stone, levee at Yuma.

Wash., Puget Sound—Transmission Line—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Dec. 18. Noted Nov. 16.

Calif., Bakersfield—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Dec. 22. (See adv.)

Calif., Vallejo—Cranes—Bureau of Yards and Docks, Navy Dept., Washington, D. C., receiving bids Dec. 3 for 2 fitting-out cranes, at Navy Yard, Mare Island, Calif.

Calif., Vallejo—Spikes—Bureau of Supplies and Accounts, Navy Dept., Washington, soon receives bids for furnishing, under Schedule 449, at Mare Island Navy Yard, 7,500 lb. railroad spikes.

Panama—Miscellaneous Supplies—E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Dec. 15.

Panama—Sewer Pipe—E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Dec. 4 for delivering at Colan 2,500 lin.ft. 30-in. vitrified and 2,500 ft. 36-in.

Bids In and Contracts Awarded

Mass., Boston—Extending Shipbuilding Ways—Bureau of Yards and Docks, Navy Dept., Washington, D. C., let contract to RANDLE-STODDARD, 33 Border St., East Boston, $6,883. Noted Oct. 26.

Mass., Gloucester—Retaining Basin—Comrs. Fisheries, Dept. Commerce, Washington, D. C., rejected bids. Noted Oct. 19.

Conn., Rockville—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., received low bids Nov. 20, (a) limestone, (b) sandstone, from Westchester Engineering Co., White Plains, N. Y., (a) $45,913, (b) $47,000; Algernon Blair, Montgomery, Ala., (a) $46,271; E. T. Abbott Construction Co., 1133 Broadway, New York, (a) $46,856, (b) $47,900. Noted Oct. 12.

N. Y., New York—Paving—Bureau of Yards and Docks, Navy Dept., Washington, D. C., received low bids Nov. 20, wood-block paving at Navy Yard, New York, from Franklin Contracting Co., 52 Vanderbilt Ave., New York, $2.38 per sq.yd.; Richard Lamb, 90 West St., New York, $2.38 per sq.yd. Noted Nov. 16.

Penn., Media—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., rejected bids. Noted Nov. 23.

Penn., Philadelphia—Towers—Bureau of Yards and Docks, Navy Dept., Washington, D. C., let contract 300-ft. steel towers at Navy Yard, Philadelphia, to PITTSBURGH-DES MOINES STEEL CO., Curry Bldg., Pittsburgh, $29,693. Noted Nov. 9.

Penn., Philadelphia—Ventilating System—F. R. Harris, Ch. Bureau of Yards and Docks, Navy Dept., Washington, D. C., in Buildings Nos. 17, 25 and 26, Navy Yard, Philadelphia, received low bids (a) ventilating systems installed complete, (b) do., except in foundry building No. 17, 1 blower having capacity of 36,000 cu ft. per min. shall be installed and air duct system extended across building, from Thompson Bros., 123 North 5th St., Philadelphia, (a) $7,770; W. English & Co., 259 North Lawrence St., Philadelphia, (a) $6,515, (b) $5,800. Noted Nov. 9.

D. C., Washington—Sewers—Dist. Comrs., Washington, received low bids 1, ordinary excavation, 2, concrete masonry, 3, vitrified masonry, 4, sewer brick masonry, from (a) W. F. Brenizer Co., Washington, (b) George Hyman, Washington, (c) L. M. Johnston, Arlington, Va., Pennsylvania Ave., S. E., 7,500 cu.yd.: (a-1), 85c., (b-1), 90c., (c-1), 87c.; 700 cu.yd., (a-2) $6.60, (b-2), $7, (c-2) $7.15; 60 cu.yd., (a-3) $21, (b-3) $20, (c-3) $21; 20 cu.yd., all $14; portion Mt. Pleasant Trunk Sewer, 12,500 cu.yd., (a-1) $1, (b-) $1.25, (c-1) 95c.; 1,075 cu.yd., (a-2) $7, (b-2) $8, (c-2) $7.25; 110 cu.yd., (a-3) $21, (b-3) $20, (c-3) $22; 50 cu.yd., (a-4) $15, (b-4) $15, (c-4) $14; portion 14th St. Trunk Sewer, 4,000 cu.yd., (a-1) $1 40, (b-1) $2, (c-1) $1.35; 450 cu.yd., (b-2) $8, (c-2) $7.80; 40 cu.yd., (a-3) $21, (b-2) $25, (c-2) $22.50; 15 cu.yd., all $15; concrete invert, Old Tiber Sewer, 1,300 cu.yd., (a-2) $7.75, (c-2) $8.55. Noted Nov. 16.

Va., Franklin—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., received low bids Nov. 22 (a) limestone, (b) sandstone, from W. H. Fissell & Co., Marbridge Bldg., New York, (a) $45,690, (b) $47,390; R. V. Richardson, Hampton, (a) $37,740, (b) $38,940; Algernon Blair, Montgomery, Ala., (a) $41,778. Noted Oct. 19.

Va., Wheeling—Lock Gates—U. S. Engr. Office, Wheeling, let contract, at Dam No. 22, Ohio River, to WHITEHEAD & KALES IRON WORKS, Detroit Mich., $4,500. Noted Oct. 12.

W. Va., Wheeling—Lock Gates—U. S. Engr. Office, Wheeling, let contract, at Dam No 24, Ohio River, to PENN BRIDGE CO., Beaver Falls, Penn., $52,440. Noted Oct. 5.

Fla., Key West—Radio Buildings—H. R. Harris, Ch. Bureau of Yards and Docks, Navy Dept., Washington, let contract to NEWPORT ENGINEERING AND CONTRACTING CO., Newport News, Va., $19,736. Noted Nov. 9.

Ala., Ft. Morgan—Wharf—Quartermaster received bids Nov. 17, (a) construction of wharf, (b) ramp, per M ft. timber, from G. M. Gadsden, Savannah, Ga., (a) $14,847, (b) $50; Jett-Muths Construction Co., Mobile, (a) $17,208, (b) $48; A. E. Massey, New Orleans, La., (a) $19,450, (b) $90.

La., New Orleans—Vaults—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., received low bids Nov. 20, in Custom House, from Diebolt Safe and Lock Co., Canton, Ohio, $38,771; York Safe and Lock Co., York, Penn., $28,818.

Tex., Point Isabel—Artesian Well and Accessories—F. R. Harris, Ch. Bureau of Yards and Docks, Navy Dept., Washington, D. C., received low bids Nov. 20, at Naval Radio Station, Point Isabel, item 1, well (a) drilling 400 ft. deep, (b) 400 to 600 ft., (c) 600 to 800 ft., (d) 800 to 1,000 ft., (e) 8-in. casing, 400 lin.ft., (f) 6-in. casing, 1,000 ft., (g) grouting between casing, 31 cut.ft.; item 2, well head; item 3, trenching; item 4, service pipes, from G. E. Curry, Raymondville, Tex., item 1, (a) $4.50, (b) $3.50, item 2, $175, item 3, 3c. per lin.ft., item 4, 20c.; E. Christman, 403 East Main St., Massillon, Ohio, item 1, (a) $4.72, (b) $4.72, (c) $4.80, (d) $4.80, (e) $1.90, (f) $1.51, (g) 50c., item 2, $32.60, item 3, $105, item 4, $85.60. Noted Nov. 2.

Tex., Velasco—Coast Guard Station—U. S. Coast Guard Office, Washington, D. C., let contract to W. D. LOVELL, 1415 Southeast 8th St., Minneapolis, Minn., $17,800. Noted Nov. 23.

Tex., Yoakum—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., received low bids Nov. 20, (a) limestone, (b) sandstone, from Algernon Blair, Montgomery, Ala., (a) $44,135; Richardson Engineering and Construction Co., Bainbridge, Ga., (a) $45,993, (b) $47,000; W. D. Lovell, Minneapolis, Minn., $46,329. Noted Oct. 19.

Calif., Ft. Mason—Water System—Constructing Quartermaster rejected bids.

Calif., San Diego—Crane—Bureau of Yards and Docks, Navy Dept., Washington, received low bids, Naval Coal Depot, from Browning Co., Cleveland, Ohio, $12,674; Link-Belt Co., 39th and Stewart Ave., Chicago, Ill. Noted Oct. 26.

CANALS, DITCHES AND IRRIGATION

Proposed Work

Ohio, Greenville—Ditch—Darke and Miami Counties plan Lansing joint ditch. Address County Clk., Greenville.

Ohio, Youngstown—Dredging—City plans to dredge Mahoning River. F. M. Lillie, City Engr., to prepare estimate of cost.

Ind., Laporte—Drainage—Comrs. Laporte and Starke Counties recommended widening and deepening of Yellow River for about 9 mi. in Starke County and building Hanna Arm in Prairie and Hanna Townships, also Williams Arm, Prairie Township. About $152,000. Address H. Emmke, Laporte.

Wis., Freedom—Drainage—A. H. Millord, New London, plans to organize company to drain about 1,500 acres in Outagamie County.

Iowa, Council Bluffs — Drainage — Mosquito Creek Drainage Dist., Pottawatomie County, receiving bids Dec. 9. About $40,000. J. D. Hannan, Council Bluffs, Audr. Noted June 29.

Iowa, Mason City—Drainage—Cerro Gordo County making plans, Dists. Nos. 31 and 40. About $500,000 and $200,000 respectively. Address G. B. Frost, Mason City.

Iowa, Sibley—Drainage—Osceola and Dickinson Counties, Dist. No 3, receiving bids Dec. 12 for about 226,000 cu.yd. open ditch, 281,700 ft. tile ditch, 19 bulkheads and 200 inlets. Address Clk., Osceola County, Sibley.

Minn., Blue Earth—Ditch—Faribault County receiving bids Dec. 1 for County Ditch No. 53. About $7,214. J. J. Herring, Audr., and C. I. Hagger, Blue Earth, Engr.

Neb., David City—Drainage—Butler County Drainage Dist. No. 2 plans extensive drainage work. Towl Engineering Co., Oklahoma, Engr.

Tex., San Benito—Irrigation—Cameron County, Dist. No. 2, election Dec. 7 to vote on $600,000 bonds, $340,000 to be used to purchase irrigation system of San Benito Land and Water Co. and remainder to improve pumping plant and extend canal system. Address County Clk., San Benito. Noted Aug. 17.

Wash., North Yakima — Canal — Reclamation Engr. preparing estimates of cost of enlarging first 40 mi. Sunnyside Canal to carry water for watering about 30,000 acres.

Wash., North Yakima — Canal — Selah-Moxee Canal Co. plans to rebuild flume at canal. About $40,000.

Ore., Prineville—Irrigation—Ochoco Irrigation Dist., Crook County, voted $1,100,000 bonds for irrigating 23,400 acres. Noted Oct. 26.

Calif., Fresno—Irrigation—J. J. Graves and W. C. Graves, Jr., plan to spend about $100,000 for irrigation system on Kings River.

Bids In and Contracts Awarded

N. Y., Albany—(Official)—Barge Canal Work—W. W. Wotherspoon, State Supt. Pub. Wks., Capitol, received low bids barge canal work as follows: Terminal Contract No. 101, furnishing and installing steel stiff leg derricks of terminal sites at Albany, Whitehall, Little Falls, Rome, Lockport and Tonawanda, E. B. Baker, Herkimer, $31,790; Contract No. 30-A, for completing improved Erie Canal at intersection with old Erie Canal and incidental work between Jacksonburg and Herkimer, E. B. Baker, Herkimer, $128,232; Contract No. 98, lift bridge on Adams St., Lockport, and removing existing lift bridge at Chapel St., Tifft Construction Co., Inc., Buffalo, $82,276. Noted Nov. 2.

N. Y., Albany—(Official)—Barge Canal Work—Bids received Nov. 24 for concrete apron below gates of Vischer Ferry dam, Erie Canal, Sect. 2, Contract No. 150, from Brown & Lowe, 111 Foster Ave., Schenectady, $21,780; Holler & Sheplar, Ft. Edward, $22,550; E. B. Baker, Herkimer, $22,600. Noted Nov. 9.

N. Y., Albany—Barge Canal Work—State Supt. Pub. Wks. received bids improving Ellicott Creek from intersection with Tonawanda Creek to point opposite southerly property line of Eastern Lumber Co., from H. S. Kerbaugh, 6 Church St., New York, $50,496, and Great Lakes Dredge and Dock Co., D. S. Morgan Bldg., Buffalo, $55,128.

N. Y., New York—(Brooklyn)—(Official)—Boro. let contract dredging Newtown Creek Canal at Metropolitan Ave. Basin near intersection Scott and Metropolitan Ave. to J. J. McSPIRIT, 118 Wayne St., Jersey City, $0.585 per cu yd. Bids for Wallabout Canal rejected. Noted Nov. 23.

N. J., Trenton—(Official)—Dredging—Bd. Commerce and Navigation, State House, received bids dredging section proposed inland water way con-

Canals, Ditches and Irrigation (Continued)

necting Barnegat Bay with Manasquan River from Hill Dredging Co., 37c. per yd., and Richards Dredging Co., 39c. per yd. Noted Nov. 9.

Ohio, Fremont—Dredging—Sandusky County let contract dredging Pickerel Creek to SHIRLEY-SKELDON DREDGING AND SUBMARINE CO., Toledo.

Minn., Benson—(Official)—Ditch County let contract Ditch No. 4 to EWING & BROCKENBROUGH, Chicago, $66,829.

Minn., Breckenridge—(Official)—Ditch—Wilkin County let contract Ditch No. 29 to B. E. MORGAN, Barnesville. Noted Nov. 9.

Minn., Ivanhoe — (Official) — Ditch — Lincoln County let contract Ditch No. 32 to M. JENSEN, Tyler, about $4,975. Noted Nov. 9.

Mo., Kohoka—Drainage—Gregory Drainage Dist. let contract about 6¼ mi. levee to R. H. & G. A. McWILLIAMS, 322 South Michigan Ave., Chicago, about $45,889. Noted Nov. 2.

Calif., Merced—Drainage—Atwater Drainage Dist. let contract drainage system to SHATTUCK EDINGER CO., 268 Market St., San Francisco, about $97,000. Noted Sept. 7.

Calif., Modesto—Irrigation—Modesto Irrigation Dist. let contract canal lining work to J. WILLISON, about $5,585.

Calif., Modesto—Irrigation—Waterford Irrigation Dist. let contract Sects. Nos. 3, 4 and 5 of canal to W. C. PRICE & CO., 211 Clay St., San Francisco. Bids for Sects. Nos. 1 and 2 rejected. Noted Oct. 5.

Calif., Terre Bella—Irrigation—Terra Bella Irrigation Dist. let contract first unit of project to W. F. KRANER, San Francisco, about $376,000. Noted Oct. 26.

MISCELLANEOUS

Proposed Work

Conn., New Haven—Bulkhead—C. R. Waterhouse granted permission by Harbor Bd. at plant of Old Colony Distilleries on Mill River St.

N. Y., Syracuse—Channel—Bd. Contract and Supply approved plans for enlarging channel of Furnace Brook under May Ave. and part of Elmwood School lot. H. A. Allen, City Engr.

N. J., Jersey City—Pier—Lehigh Valley R.R. plans to improve Pier No. 6, Black Tom Dist. About $20,000. E. B. Ashby, 143 Liberty St., New York, Ch. Engr.

Penn., Philadelphia—Fire Houses—Bureau of Fire plans, west and southwest section of city; about $205,000 recently voted for work. G. S. Webster, Engr. Dept. Pub. Wks.

Penn., Philadelphia—Playgrounds—City soon receives bids improving playgrounds, Cedar and Cambria St.. About $40,000. C. E. Albright, City Engr.

Penn., Rankin Station—(Braddock post office)—(Official)—Parks and Playgrounds—Citizens defeated $30,000 bonds. Noted Nov. 23.

Ohio, Akron—Elimination of Grade Crossings—Citizens voted $1,000,000 bonds. I. A. Preist, Clk.

Ohio, Akron—(Official)—Retaining Wall—Bd. Education, Central High School Bldg., receiving bids Dec. 26, along Perkins St. side of Bowen School. J. F. Barnhart, Clk.

Ohio, Cincinnati—Retaining Wall—City receiving bids Dec. 1, on Glencoe Pl. F. Krug, City Engr.

Ohio, Columbus—Flood Protection—Flood Protection—Citizens voted $3,500,000 bonds. H. Maetzel, City Engr. Noted Sept. 21.

Ohio, Mansfield—Park Improvements — Bd. Comrs. plans to improve Johns Park. W. J. Hazelton, City Engr.

Ohio, Youngstown—Elimination of Grade Crossings—Erie R.R. made plans, Wood St. About $5,000,000. R. S. Parsons, 50 Church St., New York, Ch. Engr. Noted Nov. 16.

Mich., Detroit—Elimination of Grade Crossings—A. Dingeman, Corp. Counsel, estimates cost of eliminating crossings of Grand Trunk Ry. on Dequindre St., at $7,000,000, city to bear $2,000,000 of cost. H. R. Safford, Montreal, Que., Ch. Engr.

Ill., Rock Island—Fire House—City rejected bids, 42nd Ave. and 12th St. New bids soon. W. Treichler, City Engr.

Wis., Milwaukee—Elimination of Grade Crossings—Chicago, Milwaukee & St. Paul Ry. plans, 11 crossings. City to bear $772,136 of cost. C. F. Loweth, Railway Exchange Bldg., Chicago, Ch. Engr. G. Staal, City Engr.

Wis., Milwaukee—Pools—Park Bd. recommended that Council appropriate $50,000 for bathing pools in parks. G. Staal, City Engr.

Kan., Kansas City—Retaining Wall—Hedrick & Hedrick, 506 Inter-State Bldg., making plans for about 4,300 ft. rein.-con. retaining wall top present dike. About $75,000.

Wyo., Sherman—Tunnel—Union Pacific R.R. plans, under summit of Rocky Mts. R. L. Huntley, 15th and Dodge St., Omaha, Ch. Engr.

Mo., Cape Girardeau—Park Improvements—Council plans to improve Fairground Park. About $20,000. Muskopf & Irish, Commonwealth Trust Bldg., St. Louis, Arch.

Mo., Kansas City—Pens—City plans, Swope Park Zoo. J. A. Bermingham, City Clk.

Tex., Beaumont—Wharf—McBride & Law purchased site at Peal and Austin St. for rein.-con. wharf.

Tex., El Paso—Elimination of Grade Crossings—City will ask Southern Pacific Co., Texas & Pacific Ry. and El Paso & Southwestern Railroad Co. to eliminate crossings in downtown district. G. Espy, City Engr.

Calif., San Diego—Fish Market—A. L. Bird, Mgr., Union Ice Co., organized company to build fish market on waterfront between E and F St. for Osborn Co.

Calif., Santa Monica—Skating Rink—Great Western Amusement Co. plans.

Ont., Brighton Beach—Dock—Mullen Coal Co. plans, about 600 ft. long.

Ont., Ft. William—Docks—Canadian Northern Pacific Ry. making plans for new rein.-con. docks. About $100,000. A. F. Stewart, Toronto, Ch. Engr.

Ont., Welland—Subway—Niagara, Welland & Lake Erie Railway Co. plans. About $17,000. C. J. Laughlin, Welland, Vice-Pres. and Gen. Mgr.

Bids In and Contracts Awarded

Mass., Belmont—Recreation Building—Massachusetts School for Feeble Minded let contract to T. A. BOSSI, Harrow St., Boston, about $23,700.

Mass., Ipswich—Coal Trestle—Ipswich Mills let contract to J. W. BISHOP CO., 683 Atlantic Ave., Boston.

R. I., Providence—Trestle—City let contract, Municipal Wharf, Fields Point, to W. POLLEYS, Providence.

Miss., Natchez—(Official)—Revetment—Natchez & Southern Ry. to build by company labor. About $18,000. C. B. Brownell, Natchez, Vice-Pres., Gen. Mgr. and Pur. Agt. Noted Nov. 16.

Ohio, Cleveland—Comfort Stations—City let contract, Clark, West 35th, East 55th St. and Euclid Ave. to MINNICK-GIBBONS CONSTRUCTION CO., 5309 Euclid Ave. Noted Sept. 28.

Ohio, Cleveland—Comfort Station—City let contract, West 14th and Abbey St., to MINNICK-GIBBONS CONSTRUCTION CO., 5309 Prospect Ave., about $6,046. Noted Oct. 26.

Ohio, Cleveland—Comfort Station—City let contract, Garfield Park, to DUFF CONSTRUCTION CO., 603 Marshall Bldg., about $12,523.

Ind., Indianapolis—Channel—City let contract cleaning channel of Pleasant Run from Beecher to Raymond St. to G. C. KING & CO., about $5,400.

Kan., Wichita—Pipe Line—Sterling Oil and Refining Co. let contract about 22 mi. to ATLAS CONSTRUCTION CO., Tulsa, Okla.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Mass., Boston—Fraternity House—St. Colombkille Church making plans, 4-story, 44x112-ft. About $40,000. E. J. Untersee, 585 Boylston St., Arch.

Mass., Bridgewater—Dormitory and Service Building—State Bd. Education, State House, Boston, receiving bids Dec. 4 for State Normal School G. Lowell, 12 West St., Boston, Arch. Noted Nov. 16.

Mass., Chicopee—High School—Bd. Education receiving bids Jan. 1, 3-story. About $300,000. G. E. Haynes, 184 North St., Pittsfield, Arch. Noted Nov. 16.

N. J., Jersey City—High School—Bd. Education receiving bids Dec. 20 for Lincoln High School. J. T. Rowland, Jr., 100 Sip Ave., Arch.

N. J., Morristown—Music Hall—City plans to spend $50,000 for rebuilding Lyceum Building. C. Mills, M. D., Mayor.

N. J., Newark—Hospital—City making plans, 5-story. About $120,000. Conklin & Convery, 665 Broad St., Arch.

N. J., Newark—Passenger Station—Central R.R. of New Jersey made plans, 832-6 Broad St. About $483,000. A. E. Owen, 143 Liberty St., New York, Ch. Engr.

Penn., Philadelphia—Church—Second Christ Congregation made plans, 1-story, 75x175-ft. About $100,000. Day & Klauder, 925 Chestnut St., Arch.

Penn., Philadelphia—Nurses' Home—City plans 4-story addition, on 34th St. About $75,000. P. H. Johnson, Land Title Bldg., Arch.

Ga., Decatur—Courthouse—DeKalb County Comrs. made preliminary plans for 1-story, 20x37-ft. About $80,000. Walker & Chase, Candler Bldg., Arch. Noted Oct. 12.

Fla., Jacksonville—Theater—Keith Circuit made plans. About $125,000. J. J. Murdock, Executive Mgr.

Ohio, Cleveland—Hospital—St. Alexie Hospital, Broadway and McBride St., receiving bids Dec. 15 for 4-story, brick and stone. About $150,000. W. C. Jansen, O'Brien Bldg., Arch. Noted May 11.

Ohio, Cleveland—I. O. O. F. Lodge, No 578, 5512 Woodland Ave., making preliminary plans brick building at East 79th St. near Euclid Ave. About $60,000. V. D. Allen, 957 Rose Bldg., Arch.

Tex., Dallas—Baptist Sanitarium making preliminary plans for 5-story addition to building. About $150,000. C. W. Bulger & Sons, Praetorian Bldg., Arch. Noted Sept. 14.

Bids In and Contracts Awarded

N. H., Peterboro—Town Hall—Town received 3 low bids from Wiley & Foss, Fitchburg, Mass., Holt-Fairchild Co., 1001 Old South Bldg., Boston, B. H. Wiggin Co., Lowell. About $60,000. Little & Russell, 45 Bromfield St., Boston, Arch. Noted July 20.

Mass., Lowell—Hospital—City let contract 2½-story, to NATIONAL FIREPROOFING CO., 120 Franklin St., Boston. About $101,055. Noted Apr. 13.

Mass., Middleboro—(Official)—High School—City rejected bids. Noted Sept. 21.

R. I., Providence—School—F. G. Rowley Co., 260 Central Ave., Pawtucket, submitted low bid, on Smithfield Ave. R. C. N. Monahan, Pawtucket, Arch.

R. I., Providence—Exchange and Office Building—Providence Telephone Co. and New England Telephone and Telegraph Co., Oliver St., Boston, let contract to C. B. MAGUIRE CO., Providence. Noted July 27.

N. Y., Potsdam—(Official)—School—State Normal and Training School let contract, 3-story, 170x280-ft., to BRADLEY & WEED, INC., 5th Ave. Building, New York, $237,400. Noted Nov 23.

N. J., Garfield—School—Bd. Education let contract 2-story to GALANTI & BRUNO, Garfield. About $55,000.

Penn., Coatesville—Hotel—Worth Bros. let contract 4-story, brick and stone, to F. W. VAN LOON, $100,000. Noted Nov. 9.

Penn., Lebanon—Club House—B. P. O. E. let contract 2-story, 48x125-ft., to G. H. GEINER, Lebanon. About $40,000. Noted Aug. 10.

Penn., Philadelphia—School—City let contract 4-story, brick, on Madison St., to MELODY & KEATING, York and 66th Ave., $130,000.

Penn., Philadelphia—Theater—Equality Amusement Co. let contract, 3-story, rein.-con., 70x100-ft., at Broad and Lombard St., to A. CHAMBLEY, 243 South 10th St., Philadelphia.

W. Va., Beckley—School—Bd. Education let contract, 3-story, 99x134-ft., to DOMINION CONSTRUCTION CO., Rooms 1, 2 and 3 Public Library Bldg., Charleston. About $68,865. Noted Nov. 9.

Ala., Birmingham—(Official)—Birmingham Infirmary constructing central building by day labor. About $50,000. Noted Nov. 16.

Tenn., Bristol—Sullins College made plans for new building. Work to be done under supervision of appointed superintendent. About $85,000 or $100,000. Noted Jan. 20.

Tenn., Nashville—School—Bd. Education let contract rebuilding Warner School to FULCHER BRICK CO., 165 4th Ave., N., Nashville, $85,874. Noted Sept. 7.

Ohio, Chillicothe—Office—Sears & Nichols Canning Co. making plans for 3-story, on South Mulberry St. J. LUNBECK, South Paint St., Contractor.

Ohio, Cleveland—Library—Bd. Pub. Library let contract to WALKER & WEEKS, Cleveland. About $2,000,000. Noted July 13.

Ohio, Cleveland—Cleveland Telephone Co. let contract, building at 2059 East 105th St., to J. GILL & SON CO., 1301 Citizens Bldg. About $50,000.

Mich., Detroit—School—Bd. Education let contract 2-story, rein.-con. and brick, on Rivard St., to M. BARTHOLOMEW & SON, Detroit. About $112,000.

Ill., Bone Gap—High and Grade School—City let contract, 2-story, 93x100-ft., to BAIRD & VAIL, Sumner. About $50,000. Noted Oct. 12.

Ill., Chicago—Chicago Telephone Co. let contract building at 311-27 West Washington St. to LANQUIST & ILLSBAY, 110 North Clark St. About $140,000.

Ill., Mattoon—Passenger Station—Illinois Central R.R. let contract 2-story, 36x100-ft. to A. W. STOOLMAN, Champaign, $75,000.

Wis., Madison—Club House—Madison Club let contract, 3-story, 60x120-ft., to A. D. & J. V. FREDERICKSON, 702 East Main St, $75,000.

Minn., Anoka—Hospital—State Bd. Control rejected bids for 3-story, 55x96-ft. C. H. Johnston, 715 Capital Bank Bldg, St. Paul, Arch. Noted Sept. 7.

Minn., Hibbing—Church—Methodist Episcopal Society let contract 2-story, 55x75-ft., to JOHNSON & WATNE, Hibbing. About $40,000. Noted Nov. 16.

Mo., Maplewood—(Official)—High School—Bd. Education let contract MURCH BROS. CONSTRUCTION CO., Railway Exchange Bldg., St. Louis, about $100,000. Noted Nov. 16.

Okla., Tulsa—Office—Sinclair Oil Co. let contract 8-story, at 5th and Main St., to SWENSON CONSTRUCTION CO, Shubert Theater Bldg., Kansas City, Mo. About $300,000. Noted Oct. 19.

Calif., Fresno—School—City received low bids, 2-story, brick and concrete, from J. L. Daly, Fresno, $48,600. Noted Sept. 7.

Calif., Los Angeles—Buildings—St. Vincent's College, West 16th St, let contract to LOS ANGELES PLANING MILL CO., 1812 Industrial St., Los Angeles. About $400,000.

Que., Montreal—Theater—Loew's Montreal Theter Co. let contract terra cotta, steel and rein.-con., to ATLAS CONSTRUCTION CO., 37 Belmont St., Montreal.

SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until Dec. 11, 1916.

Sewage Disposal Works

Township of Union, N. J.

Sealed proposals will be received by the Board of Commissioners of the Township of Union, Bergen County, New Jersey, at the Commissioners' meeting room, Odd Fellows' Hall, 505 Valley Brook Ave., Lyndhurst, N. J., on Monday, December 11, 1916, at 8 p.m., there to be publicly opened and read by the Clerk, for furnishing all material and doing all work necessary to complete the construction of a Sewage Disposal Works for the Township of Union, Bergen Co., N. J., in accordance with plans and specifications on file with the Township Clerk, 505 Valley Brook Ave., Lyndhurst, N. J.

Each proposal must be accompanied by a certified check on some solvent bank for at least five per cent. (5%) of the amount of the bid, made payable to the "Board of Commissioners, Township of Union," conditioned that if the bid is accepted, the contract will be entered into within five (5) days after the awarding of the same and the performance of the same secured. In case bid is rejected, or contract entered into, check will be returned.

Copies of plans and specifications may be seen, and form of proposal obtained, at the office of the Township Clerk, 505 Valley Brook Avenue, Lyndhurst, N. J. Copies of plans and specifications may be procured from Thomas F. Bowe, C. E., East Rutherford, N. J., by prospective bidders upon payment of $15, of which $12 will be refunded if they are returned within ten days after the opening of bids, complete and in good condition.

Bidders must furnish satisfactory evidence of their experience, and ability to construct work of the character required.

The right is reserved to reject any or all bids, to waive any informality in the bid received, and to accept any bid which is deemed to be the most favorable to the interests of the Township.

By order of the Board of Commissioners.

JOHN F. WOODS, Township Clerk.

⁂

Bids received until Dec. 18, 1916.

Tenders for Construction of 9.5 Miles of 5′ 6″ Reinforced Concrete Pressure Pipe

GREATER WINNIPEG WATER DISTRICT.

Sealed tenders addressed to the undersigned will be received up to noon of Monday, 18th of December, 1916, for the construction of 9.5 miles of 5′ 6″ reinforced-concrete pressure pipe.

Plans, Specifications and Form of Tender can be secured on application to the District, accompanied by certified check for Twenty Dollars payable to the District, which deposit will be returned upon submission of tender or return of documents.

The lowest or any tender not necessarily accepted.

R. D. WAUGH,
Chairman of Commissioners.
901 Boyd Building, Winnipeg, Man., Can.
4th of November, 1916.

Bids received until Dec. 14, 1916.

Lost Creek Reservoir and Auxiliary Pumping Station.

IMPROVED WATER-WORKS
CONTRACT NO. 3

Lima, Ohio.

Sealed proposals will be received at the office of the Director of Public Service, City Hall, Lima, Ohio, until twelve o'clock noon, central standard time, of the fourteenth day of December, 1916, and then publicly opened and read, for the construction of improvements to the water-works, contract No. 3.

The work to be done under Contract No. 3 will consist of the construction of a large storage reservoir in Lost Creek Valley, concrete spillway, auxiliary pumping station, force main and all appurtenances.

The work will include the construction of dikes containing approximately 300,000 cu.yds. of earthwork, the material for dikes to be secured from the excavation for a new creek channel and from borrow pits. The work also includes 40,000 sq.yds. of slope protection work, 2,500 cu.yds. of concrete, 340 tons of cast-iron pipe, valves and two small brick buildings.

Copies of the plans, proposal forms, specifications and forms of bonds and contract can be seen at the office of the Director of Public Service, Lima, Ohio, or at the office of "Engineering News" and of "Engineering Record," New York, and "Engineering and Contracting," Chicago, or may be obtained at the office of either of the Consulting Engineers, R. Winthrop Pratt, Hippodrome Building, Cleveland, Ohio, and Wm. G. Clark, Spitzer Building, Toledo, Ohio. A deposit of Twenty-five ($25.00) Dollars will be required for each set of plans and specifications, which sum will be refunded if plans are returned in good condition within ten (10) days after the award of the contract. Extra copies of the specifications may be obtained upon payment of Two ($2.00) Dollars for each copy, which sum will be refunded if returned copies are in good condition. All checks shall be made payable to the Director of Public Service of the City of Lima, Ohio.

The bid bond will be for ten (10) per cent. of the amount of the proposal.

The performance bond will be for seventy-five (75) per cent. of the amount of contract.

The Director of Public Service reserves the right to reject any or all bids.

A. L. METHEANY,
Director of Public Service.

⁂

Bids received until Dec. 14, 1916.

Water Pipe and Fittings

Pocatello, Idaho.

Sealed bids will be received up to five o'clock, Dec. 14, 1916, by the City Water Department, Pocatello, Idaho, for one hundred and fifty tons class B cast-iron pipe, sizes four to twelve inches; seven tons of fittings; sixty gate valves; twenty Ludlow fire hydrants, lead and jute. Detail list can be obtained from the water superintendent.

EDGAR C. SMITH,
Superintendent City Works.

Bids received until Dec. 13, 1916.

Proposals for Sewer

The City Auditor of the City of Fargo, North Dakota, will receive, until the hour of Ten o'clock A.M., the 13th day of December, 1916, Sealed Proposals, upon the basis of cash payment, for the **furnishing** of all materials for, and the **construction** of, a 24″, 22″, 18″ and 15″ **Sewer** on Tenth Avenue South, extending from Sixth to Eleventh Street South, in Sewer District No. 3 of said City, according to the plans and specifications therefor on file in the office of the City Auditor.

The successful bidder will be required to begin the construction of said Sewer not later than Jan. 1, 1917, after signing contract, and to complete the same not later than Apr. 1, 1917.

Each bid shall be accompanied by a certified check as required by law and in accordance with the specifications.

Each bid shall be securely sealed and shall have endorsed upon the outside thereof a statement of the work such proposal is for.

The City Commission reserves the right to reject any and all bids.

Dated Fargo, N. D., Nov. 23, 1916.

A. R. WATKINS, City Auditor.

⁂

Bids received until Dec. 13, 1916.

Proposals for Sewer

The City Auditor of the City of Fargo, North Dakota, will receive, until the hour of Ten o'clock A.M., the 13th day of December, 1916, Sealed Proposals, upon the basis of cash payment, for the furnishing of all materials for, and the construction of, a 27″, 24″, 22″, 20″, 12″ and 15″ Sewer on First Avenue North from Tenth to 17th Streets North and on 15½ Street North extending from First to Second Avenues North, in Sewer District No. 2 of said City, according to the plans and specifications therefor on file in the office of the City Auditor.

The successful bidder will be required to begin the construction of said Sewer not later than Jan. 1st, 1917, after signing contract, and to complete the same not later than Apr. 1st, 1917.

Each bid shall be accompanied by a certified check as required by law and in accordance with the specifications.

Each bid shall be securely sealed and shall have endorsed upon the outside thereof a statement of the work such proposal is for.

The City Commission reserves the right to reject any and all bids.

Dated Fargo, N. D., Nov. 23, 1916.

A. R. WATKINS, City Auditor.

⁂

Bids received until Dec. 12, 1916.

Corrugated Culverts

Bids will be received by the undersigned clerk, until 2 o'clock P.M., Dec. 12th, 1916, for a carload of various sizes of corrugated culverts, said culverts to comply with the Kentucky State Road Department specifications for corrugated culverts. Said culverts for Hopkins County, Kentucky. Prices f.o.b. Madisonville, Ky.

JOHN G. SALMON,
Clerk, Fiscal Court.

Construction News

BUILDING OPERATIONS FOR NOVEMBER

Following is a list of contracts awarded published by the F. W. Dodge Co. throughout the States of New England, New York, New Jersey, Pennsylvania, Maryland, Delaware, District of Columbia, Virginia, Ohio, West Virginia, Illinois, Indiana, Iowa, Wisconsin, Michigan, North and South Dakota and portions of Missouri and eastern Kansas:

January 1 to December 1, 1916	$1,243,998,397
January 1 to December 1, 1915	857,190,100
January 1 to December 1, 1914	677,920,300
January 1 to December 1, 1913	798,117,500
January 1 to December 1, 1912	803,391,500
January 1 to December 1, 1911	735,283,813
January 1 to December 1, 1910	756,284,931

Contracts awarded throughout New York State and northern New Jersey:

January 1 to December 1, 1916	$255,381,500
January 1 to December 1, 1915	155,154,500
January 1 to December 1, 1914	121,598,000
January 1 to December 1, 1913	235,694,500
January 1 to December 1, 1912	211,282,500
January 1 to December 1, 1911	215,839,500
January 1 to December 1, 1910	233,081,000

These figures show that this is the largest year in contracts awarded which we have had since 1909, being $400,000,000 over 1915, which is the next largest year. In the smaller territory, being $15,000,000 over the next largest year, which was 1913. For November for the entire territory in this table, the contracts awarded amounted to $122,382,000, and for the smaller territory $30,275,000. These figures, while they are considerably lower than any of the previous months, still show a tremendous amount of construction work for this time of year In the smaller territory the figures for November beat those of July by a small margin of about a million dollars, which is surprising, as July should be one of the largest months for construction we have.

IRON AND STEEL

Pig Iron—Below are the present quotations, with a comparison of a month and a year ago:

	Dec. 4, 1916	One Month Ago	One Year Ago
CINCINNATI			
No. 2 Southern foundry	$24.46	$18.90	$16.40
No. 2 Northern foundry	28.26	21.76	17.76
NEW YORK			
No. 2X Northern foundry	29.00	21.50	17.75
No. 2 plain Northern foundry	28.50	21.00	17.25
No. 2 Southern foundry†	28.00	21.50	18.25
BIRMINGHAM			
No. 2 Southern foundry	22.00	16.00	13.50
CHICAGO			
No. 2 Northern foundry	27.00	22.00	17.50
PITTSBURGH			
Bessemer iron*	34.45	24.95	17.95
Basic iron*	30.00	20.00	16.00

*These prices include the freight charge from the valley to the Pittsburgh district. †Delivered tidewater, New York.

Old Material—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis and vicinity, the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges:

	New York	
	Dec. 4, 1916	One Month Ago
Heavy melting steel scrap	$19.50@20.00	$12.25@12.50
No. 1 railroad wrought	22.50@23.00	20 25@20.50
Stove plate	15.50@16.00	12.00@12.50
No. 1 machinery cast	21.00@21.50	17.00@17.50
Machine shop turnings	9 00@ 9.50	6.25@ 6.50
Cast borings	10.00@10.50	8.00@ 8.25
Railroad malleable cast	17.50@18.00	12.00@12.50

	Chicago	
	Dec. 4, 1916	One Month Ago
No. 1 railroad wrought	$23.00@24.00	$18.00@18.50
Stove plate	12.75@13.25	10.75@11.25
No. 1 machinery cast	16.00@16.50	14.75@15.25
Machine shop turnings	8.50@ 9.00	6.00@ 6.50
Cast borings	7.75@ 8.25	7.25@ 7.75
Railroad malleable cast	17.00@17.50	13.50@14.00

	St. Louis	
	Dec. 4, 1916	One Month Ago
Heavy melting steel scrap	$22.00@22.50*	$18.50@19 00
No. 1 railroad wrought	20.00@20.50†	18.25@18.75
Stove plate	14.00@14.50†	11.50@12.00
No. 1 machinery cast	15.00@16.00†	13.25@13.75
Machine shop turnings	7.00@ 7 50†	6.00@ 6.25
Cast borings	7.00@ 7.50†	6.25@ 6.50
Railroad malleable cast	15.50@16.00†	13.00@13.50

*Gross ton. †Per net ton.

Steel Rails—The following quotations are per ton f.o.b. Pittsburgh and Chicago for carload or larger lots:

	Pittsburgh		Chicago	
	Dec. 4, 1916	Six Months Ago	Dec. 4, 1916	Six Months Ago
Standard bessemer rails	$38.00	$33.00	$38.00	$33.00
Standard openhearth rails	40.00	35.00	40.00	35.00
Light rails, 8 to 10 lb.	50.00	50.00	47.00	43.00
Light rails, 12 to 14 lb.	49.00	49.00	46.00	42.00
Light rails, 25 to 45 lb.	47.00	47.00	44.00	40 00

Triangle Mesh—Price per 100 sq.ft. for 4 in-mesh in carload lots:

		Plain				Galvanized		
Style No.	Cross-Sec. Area per Ft. Width	New York	St. Louis	Chicago	San Francisco	New York	St. Louis	San Francisco
4	0.102	$1.66	$1.76	$1.74	$2.06	$1.87	$1.97	$2.27
5	0.077	1.31	1.39	1.37	1.64	1.48	1 56	1.81
6	0.058	1.04	1.10	1.09	1.30	1.17	1.23	1.11
7	0.041	.81	.86	85	1.01	.91	.96	1.43
23	0.170	2.77	2.94	2.91	3.49	3.13	3.30	3.82
24	0.142	2.39	2.54	2.51	2 98	2.70	2.85	3.28
25	0.124	2.12	2.25	2.22	2.65	2.39	2.52	2.92
26	0.110	1.93	2.05	2.02	2.41	2.18	2.30	2.65
27	0.085	1.58	1.68	1.66	1.97	1.78	1.88	2.17
28	0.066	1.31	1.39	1.37	1 63	1.48	1.56	1.79
29	0.049	1.08	1.15	1.13	1.35	1 22	1.29	1.49
31	0.261	4 08	4.33	4.28	5.11	4.61	4.86	5.62
32	0.225	3.54	3.76	3.71	4 43	4.00	4.22	4.88
33	0.196	3.16	3.35	3.31	3.95	3.57	3.76	4.35
34	0 140	2.43	2.58	2.55	3.03	2 74	2.89	3.34
35	0.109	1.93	2.05	2.02	2.41	2.18	2.30	2.65
36	0.075	1.42	1.51	1.49	1 78	1.61	1.70	1.96
38	0.380	5.81	6.17	6.10	7.28	6.57	6.93	8.01
39	0.325	5.01	5.32	5.26	6.26	5 66	5.97	6.88
40	0.283	4.39	4.66	4.61	5.49	4.96	5.23	6.04
41	0 208	3.35	3.56	3.51	4 19	3.78	3.99	4.62
42	0.151	2 54	2.70	2.66	3.18	2.87	3.03	3.50
43	0.101	1.81	1.92	1.90	2.26	2 04	2.15	2.49

Less than carload lots this material is about 10% higher.

Pipe—The following discounts are for carload lots f.o.b. Pittsburgh, in effect Dec. 4, 1916:

Butt Weld					
Steel			Iron		
Inches	Black	Galvanized	Inches	Black	Galvanized
¾ to 3	66%	52½%	¾ to 1½	58%	42%
Lap Weld					
2	59%	46½%	1¼	44%	29%
2½ to 6	62%	49½%	1½	50%	36%
7 to 12	59%	45½%	2	51%	37%
13 and 14	49½%	....	2½ to 4	53%	40%
15	47%	....	4½ to 6	53%	40%
			7 to 12	52%	39%
Butt Weld, Extra Strong Plain Ends					
¾ to 1½	64%	51½%	¾ to 1½	59%	44%
2 to 3	65%	52½%			
Lap Weld, Extra Strong Plain Ends					
2	57%	45½%	1¼	46%	31%
2¼ to 4	60%	48½%	1½	51%	37%
4½ to 6	59%	47½%	2	53%	40%
7 to 8	55%	41½%	2¼ to 4	55%	43%
9 to 12	50%	36½%	4½ to 6	54%	42%
			7 to 8	48%	36%
			9 to 12	43%	31%

From warehouses at the places named the following discounts hold for steel pipe:

	Black		
	New York	Chicago	St. Louis
¾ to 3 in. butt welded	62%	62.8%	62.27%
3½ to 6 in. lap welded	57%	58.8%	58.27%
7 to 12 in. lap welded	50%	55.8%	58 27%
	Galvanized		
	New York	Chicago	St. Louis
¾ to 3 in. butt welded	46%	48.8%	48.27%
3½ to 6 in. lap welded	39%	45.8%	45.27%
7 to 12 in. lap welded	27%	41.8%	41.27%

Malleable fittings, Class B and C, from New York stock, sell at 30 and 5% from list price. Cast iron, standard size, 55%.

Rivets—The following quotations are per 100 lb.:

Structural						
	Mill, Pittsburgh		Warehouse			
	Dec. 4, 1916	3 Months Ago	New York	Chicago	St. Louis	San Francisco
¾ in. and larger	$4.25	$4.00	$5 25	$4.50	$4.55	$5.75
Cone Head Boiler						
¾ in. and larger	4.35	4.10	5.35	4.60	4.65	5 85
⅝ and 11/16	4.50	4.25	5.50	4.75	4.80	6.00
½ and 9/16	4.85	4 60	5.85	5.10	5.15	6 35

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

Cast-Iron Pipe—The following are prices per net ton for carload lots:

	New York					
	Dec. 4, 1916	One Month Ago	Birmingham	Chicago	St. Louis	San Francisco
4 in.	$42.50	$34.50	$37.00	$42.15	$41.00	$48 00
6 in. and over	39.50	31.50	34.00	39.15	38.00	45.00

Gas pipe and 16-ft. lengths are $1 per ton extra.

Nails—The following quotations are per keg from warehouse:

	New York	St. Louis	Chicago	San Francisco
Wire	$3.60	$3.50	$3.45	$3.80
Cut	3.60	3.20	3.60	4.05

Chain—Quotations below are per 100 lb.:

	New York Dec. 4, 1916	New York One Year Ago	Chicago	St. Louis	San Francisco
3/16	$10.35	$8.00	$10.25	$12.50	$13.50
¼	7.80	5.45	7.70	9.00	9.75
5/16	6.80	4.45	6.70	7.50	8.50
⅜	6.25	3.90	6.15	6.75	8.00
7/16	6.05	3.70	6.00	6.65	7.75
½ and 9/16	5.85	3.50	5.85	6.50	7 50
⅝ and 11/16	5.75	3.40	5.75	6.40	7.25
¼ and 13/16	5.65	3 30	5.65	6.25	7.25
⅞ and 15/16	5.55	3.20	5 55	6.15	7.10
1 to 1¼	5.45	3.10	5.45	6.00	7.00

EXTRAS TO ABOVE LIST PER 100 LB.

	For BB	For BBB
3/16 in. and ¼ in.	$1.50	$2.00
5/16 in. and larger	1.25	1.75

Sheets—Quotations are in cents per pound in various cities from warehouse, also the base quotation from mill:

Blue Annealed	Large Lots, Pittsburgh	St. Louis	Chicago	San Francisco	New York Dec. 4, 1916	New York 6 Mos. Ago
No. 10	3.40@3.65	4.05	4.00	...	4.65	4.55
No. 12	3.40@3.65	4.10	4.05	...	4.70	4 50
No. 14	3.50@3.75	4.15	4.10	...	4.75	4.60
Black						
Nos. 18 and 20	3.80@4.05	4.55	4 40	5.73	4.80	3.45
Nos. 22 and 24	3.85@4.10	4.60	4.45	5.83	4.85	3.50
No. 26	3.90@4.15	4.65	4.50	5 96	4.90	3.55
No. 27	3.95@4.20	4.70	4.55	6.03	4.95	3.60
No. 28	4.00@4.25	4.75	4 60	6.13	5.00	3.65
Galvanized						
No. 10	4 50@5.00	6.50	5.20	6.40	5.95	4.60
No. 12	4.60@5.10	6.50	5.20	6 47	6.10	4.75
No. 14	4.60@5.10	6.50	5.20	6.47	6.25	4.90
Nos. 18 and 20	4.90@5.40	6.50	5 40	6.76	6.40	5.05
Nos. 22 and 24	5 05@5.55	6.50	5.55	6.91	6.55	5.20
No. 26	5.20@5.70	6.50	5.70	7 06	6.70	5.35
No. 27	5.25@5.75	6.50	5.85	7.20	6.85	5.50
No. 28	5.50@6.00	6.50	6 00	7.35	7.00	5.65

Bars, Concrete Reinforcing—The following quotations are per 100 lb.:

		Warehouse				
In.	Mill Shipment	New York Dec. 4, 1916	New York One Month Ago	St. Louis	Chicago	San Francisco
¾ and larger	$2.90	$3.75	$3.35	$3.24	$3.60	$4.25
⅝	2 95	3.85	3.45	3.29	3.65	4 35
½	3.00	3.90	3.50	3 34	3.70	4.45
⅜	3.15	4.15	3.75	3.49	3.85	4.75
¼	3 40	4.50	4.10	3.74	4.10	5.25

Track Supplies—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	Mill, Pittsburgh Dec. 4, 1916	Mill, Pittsburgh One Year Ago	Chicago	St. Louis	San Francisco
Standard railroad spikes	$2.75	$2.00	$3.60	$3.30	$4.30
Track bolts	4.50	2 50	5.60	Premium	4.75
Standard section angle bars	2.00	1 50	3.95	Premium	4.50

Wire Rope—Discounts from list price on bright and galvanized are as follows:

	New York	St. Louis	Chicago	San Francisco
Galvanized	15-2½%	15-2½%	15-2½%	25%
Bright	25-2½%	25-2½%	20-2½%	15%

At this rate the net prices in New York for galvanized, 7 wires to strand, are as follows per 100 ft.:

Diameter, In.		Diameter, In.	
½	$4.40	1¼	$18 30
⅝	5 90	1⅜	20 80
¾	6 60	1½	25.60
⅞	9.50	1⅝	27.80
1	11.00	1¾	32 20

Structural Material—The following are the base prices f.o.b. mill, Pittsburgh, together with the quotations per 100 lb. from warehouses at the places named:

	Mill Pittsburgh	St. Louis	New York	Chicago	San Francisco
Beams, 3 to 15 in.	$3.00	$3.75	$3.75	$3.70	$4.50
Channels, 3 to 15 in.	3.00	3.75	3.75	3.70	4.50
Angles, 3 to 6 in., ¼ in. thick	3.00	3.75	3.75	3.70	4.50
Tees, 3 in. and larger	3.00	3.75	3.75	3.75	4.50
Plates	3.50	4.65	4.75@5.00	4.35	5 00

Extras on other shapes and sizes in cents per lb. are as follows:

I-beams over 15 in.	.10
Angles over 6 in., on one or both legs	10
Angles, 3 in. on one or both legs less than ¼ in. thick	.70
Cutting to lengths, under 3 ft. to 2 ft inclusive	.25
Cutting to lengths, under 2 ft. to 1 ft. inclusive	.50
Cutting to lengths, under 1 ft.	1.55

No charge is made for cutting to lengths 3 ft. and over.

Freight Rates—On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

Baltimore	15.40	Minneapolis	32.90
Boston	18.90	New Orleans	30.70
Buffalo	11.60	New York	16.90
Chicago	18 90	Pacific Coast (all rail)	65.00
Cincinnati	15.80	Philadelphia	15 90
Cleveland	10.50	St. Louis	23.60
Denver	68.60	St. Paul	32.90
Kansas City	43.60		

Expanded Metal Lath—Prices per 100 yd. for painted are as follows:

Gage	Weight	New York	Chicago	St. Louis	San Francisco
27	233	$18.00	$15.59	$18.00	$17.00
26	250	19.00	16.50	19.00	18.25
25	300	20.00	18.50	....	19 75
24	340	21.00	19 50	21.00	21.00
22	450	24.00	22.00	....	24.50

About 10% additional for smaller quantities. For galvanized add $10, and $4.50 for tuncan.

Steel Sheet Piling—The following price is base per 100 lb. f.o.b. Pittsburgh, with a comparison of a month and a year ago:

Dec. 4, 1916	One Month Ago	One Year Ago
$3 00	$2.60@2.70	$1.50@1.55

Rail Steel—Per 100 lb., St. Louis mills:

¾ in. and larger	$2.75	⅜ in.	$3.00
⅝ in.	2 80	¼ in.	3.25
½ in.	2 85		

CEMENT, BRICK AND STONE

Paving Stone—

New York	Manhattan	$2.40 sq yd.
	Other boroughs	2.20 sq yd.
Chicago	About 4x8x4 dressed	2.15 sq.yd.
	About 4x8x4 common	1.75 sq.yd.
San Francisco	Basalt block 4x7x8	57.75 per M

Flagging—

New York	Bronx	$0.17 sq.ft.
	Manhattan	.17 sq.ft.
	Queens 5 ft. square	.18 sq.ft.
Chicago	18 in. wide	.60 lin.ft.

Curbing—Prices per linear foot are as follows:

New York	5x16	$0.40
	5x20	.45
Chicago	6x18	.45
St. Louis	5x16	.68
San Francisco	5x16	.75
	5x20	.85

Brick—The price per 1,000 in cargo or carload lots is as follows:

	Common	Paving Brick	Paving Block
New York	$9.50	$19.50	$26.50
Chicago	6.00	15.00	23.00
St. Louis, salmon	7.00	....	....
St. Louis, selected red	10.00	....	17.50
San Francisco	10.00	....	35.00

Portland Cement—These prices are for barrels in carload lots including bags:

	Dec. 4, 1916	One Month Ago	One Year Ago
New York	$1.87	$1.77	$1 67
Jersey City	1.80	1.70	1.61
Boston	2.02	1.92	1.82
Chicago	1 96	1.86	1.71
Pittsburgh	1.96	1.81	1.81
Cleveland	2.09	1.94	1.85
Detroit	2.05	1.95	1 86
Indianapolis	2.09	1.99	1.84
Toledo	2.09	1.99	1.94
Milwaukee	2 08	1 98	1.88
Minneapolis	2.23	2.13	1.98
Duluth	2.21	2.06	1.96
Peoria	2.08	1.98	1.79
Cedar Rapids	2.19	2.09	1.90
Davenport	2.14	2.04	1.80
St. Louis	1 95	1.85	....
San Francisco	2.30	2.30	2.30

Sand and Gravel—Price for cargo or carload lots is as follows:

	Gravel Paving	Gravel 1½ In.	Gravel ¾ In.	Sand
New York	$1.25	$1.00	$1 10	$0.50 per cu.yd.
Chicago	1.25	1 00	1.00	1.00 per cu.yd
St. Louis	....	.70	.70	.60 per cu.yd.
San Francisco	2.00	1.00	1.00	1.00 per cu.yd.

Crushed Stone—Price for cargo or carload lots is as follows:

	1½ In.	¾ In.
New York	$1.00@1.10	$1.10@1.25
Chicago	1.00	1.00
St. Louis	1.00	1.00
San Francisco	1.00	1.00

MISCELLANEOUS

Flue Lining—The following quotations are in cents per foot for carload lots at the places named:

	New York Dec. 4, 1916	New York One Year Ago	St. Louis	Chicago	San Francisco
4½x 8½ in.	$0.108	$0.066	$0.11	$0.12	$0 12
4½x13 in.	.144	.085	.15	.16	.18
8½x 8½ in.	.144	.085	.14	.16	.16
8½x13 in.	.216	.123	.18	.20	.22
8½x18 in.	.314	.17	.28	.32	.30
13 x18 in.	.276	.228	.40	.42	.40
18 x18 in.	.54	.38	.60	.55	....

Railway Ties—For fair-size orders, the following prices per tie hold:

	Material	7 In. by 9 In. by 8 ft. 6 In.	6 In. by 8 In by 8 Ft.
New York	Yellow Pine	$1.07	$0.92
St. Louis	No. 1 White Oak	.72	.61
Chicago	....	.95	.85
San Francisco	Green	.78	.53
San Francisco	Creosoted	1.39	.96

Sewer Pipe—The following prices are in cents per foot for carload lots:

Size, In.	New York Dec. 4, 1916	New York One Year Ago	St. Louis	Chicago	San Francisco
3	.0725	.05	......	.0625	.06
4	.0725	.05	......	.0625	.08
5	.12	.08	......	.10	.10
6	.12	.08	.0825	.10	.12
8	.165	.11	.135	.1375	.18
10	.24	.16	.18	.20	.27
12	.30	.20	.245	.25	.3375
15	.405	.27	.35	.3375	......
18	.57	.38	.525	.475	.675
20	.675	.45	.70	.5625	.875
22	.90	.60	.84	.75	$1.05
24	.975	.65	$1.00	.8125	1.25
27	$1.665	$1.35	1.30	....	......
30	2.035	1.65	1.70	....	......
33	2.625	2.187	2.25	....	......
36	2.94	2.45	2.50	....	......

Lumber—Price per M in carload lots:

Square Edge and Sound Green

Southern Pine—New York:

	20 Ft. and Under	22-24 Ft.	26 Ft.	28 Ft.	30 Ft.	32 Ft.
3x 4 to 8x 8	$28.00	$29.00	$30.00	$30.00	$31.00	$31.00
3x10 to 10x10	29.00	30.00	31.00	31.00	32.00	32.00
3x12 to 12x12	34.00	35.00	36.00	36.00	37.00	37.00
3x14 to 6x14	36.00	37.00	38.00	38.00	39.00	39.00
7x14 to 14x14	36.00	37.00	38.00	38.00	39.00	39.00
3x16 to 6x16	38.00	39.00	41.00	41.00	43.00	43.00
7x16 to 16x16	38.00	39.00	41.00	41.00	43.00	43.00
3x18 to 8x18	42.00	43.00	45.00	45.00	47.00	47.00
9x18 to 18x18	42.00	43.00	45.00	45.00	47.00	47.00
4x20 to 20x20	46.00	47.00	49.00	49.00	51.00	51.00

Southern Pine—Chicago:

	20 Ft. and Under	22-24 Ft.	26 Ft.	28 Ft.	30 Ft.	32 Ft.
3x 4 to 8x 8	26.00	27.00	28.00	28.00	29.00	29.00
3x10 to 10x10	27.00	29.00	29.00	29.00	30.00	30.00
3x12 to 12x12	31.00	32.00	33.00	33.00	34.00	34.00
3x14 to 6x14	33.00	34.00	35.00	35.00	36.00	36.00
7x14 to 14x14	33.00	34.00	35.00	35.00	36.00	36.00
3x16 to 6x16	35.00	36.00	38.00	38.00	40.00	40.00
7x16 to 16x16	35.00	36.00	38.00	38.00	40.00	40.00
3x18 to 8x18	39.00	40.00	42.00	42.00	44.00	44.00
9x18 to 18x18	39.00	40.00	42.00	42.00	44.00	44.00
4x20 to 20x20	43.00	45.00	45.00	46.00	48.00	48.00

Quotations from Lumberman's Bureau.

Yellow Pine—St. Louis:

	20 Ft.	22 and 24 Ft.	26 Ft.	28 Ft.	30 Ft.	32 Ft.
3x 4 to 8x 8	$21.00	$22.00	$23.00	$24.00	$25.00	$26.00
3x10 to 10x10	22.00	23.00	24.00	25.00	26.00	27.00
3x12 to 12x12	23.50	24.50	25.50	26.50	27.50	28.50
3x14 to 6x14	25.00	26.00	27.00	28.00	29.00	30.00
7x14 to 14x14	25.00	26.00	27.00	28.00	29.00	30.00
3x16 to 6x16	27.00	28.00	29.00	30.00	31.00	32.00
7x16 to 16x16	27.00	28.00	29.00	30.00	31.00	32.00
3x18 to 8x18	29.00	30.00	31.00	32.00	33.00	34.00
8x18 to 18x18	29.00	30.00	31.00	32.00	33.00	34.00
4x20 to 20x20	33.00	34.00	35.00	36.00	37.00	38.00

Over 32 ft.—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12x12 and under; for sizes over 12x12 add $2. For merchantable add $2 to sizes 10x10 and under. For prime add $2 to the price of merchantable for all sizes.

Rough Douglas Fir, No. 1 Common—More than carload lots in San Francisco:

Size in Inches	15 Ft. and Under	16 to 24 Ft.	25 to 32 Ft.
3 and 4x4	$15.00	$16.50	$17.50
3 and 4x6 and 8	15.00	15.50	16.50
6x6 to 8x8	15.50	16.50	16.50
3 and 4x10	15.00	16.50	17.50
6 and 8x10	16.00	17.00	17.00
10x10	16.00	16.00	18.00
3 and 4x12	15.00	16.50	17.50
6 and 8x12	16.50	17.50	17.50
10 and 12x12	16.00	16.00	18.00
3 and 4x14	16.00	18.00	19.00
6 and 8x14	17.50	18.50	18.50
7 and 9x14	18.50	19.50	19.50
10 and 12x14	17.00	17.00	19.00
14x14	16.00	16.00	18.00
3 and 4x16	17.00	19.50	20.50
6 and 8x16	19.00	20.00	20.00
7 and 9x16	20.00	21.00	21.00
10 and 12x16	18.00	18.00	20.00
14 and 16x16	16.00	16.00	18.00
3 and 4x18	18.00	21.00	23.00
6 and 8x18	19.50	22.00	22.00
7 and 9x18	20.50	23.00	23.00
10 and 12x18	19.00	19.00	21.00
14 and 16x18	17.00	17.00	19.00
18x18	18.00	18.00	20.00
3 and 4x20	20.00	22.50	24.50
6 and 8x20	21.50	24.00	24.00
10 and 12x20	20.00	20.00	22.00
14 and 16x20	18.00	18.00	20.00
18 and 20x20	19.00	19.00	21.00

Poles—Price of Western red cedar poles is as follows:

	New York	Chicago	Denver	St. Louis
6 in. by 30 ft	$4.99	$4.34	$3.72	$4.34
7 in. by 30 ft	5.90	5.10	4.30	5.10
7 in. by 45 ft	8.45	7.35	6.30	7.35
8 in. by 35 ft	9.95	8.65	7.40	8.65
7 in. by 40 ft	10.10	8.75	7.50	8.75
8 in. by 40 ft	11.35	9.65	8.15	9.65
8 in. by 45 ft	14.45	12.45	10.55	12.45
8 in. by 50 ft	16.85	14.45	12.15	14.45

Clay Drain Tile—The following prices are per 1,000 lin ft.:

Size, In.	New York Dec. 4, 1916	New York One Year Ago	St. Louis	Chicago	San Francisco
3	$23.00	$22.50	$16.00	$15.00	$24.50
4	32.45	32.50	18.00	18.00	31.50
5	45.00	47.50	25.00	23.00	45.50
6	56.55	57.50	35.00	27.00	63.00
8	98.50	97.50	65.00	55.00	105.00

Hollow Tile—Hollow building tile price per block in cents:

	New York	Chicago	St. Louis	San Francisco
4x12x12 in.	.09	.064	.054	.07
6x12x12 in	.126	.092	.066	.095
8x12x12 in.	.153	.108	.098	.12
10x12x12 in	.18	.127	15	.18
12x12x12 in.	.225	.146	18	.20

Fireproof partition blocks price per block in cents:

	New York	Chicago	St. Louis	San Francisco
2x12x12 in.	.076	.043	...	.055
3x12x12 in.	.076	.044	...	.065
4x12x12 in.	.086	.047	...	.07
6x12x12 in.	114	.064	...	.095
8x12x12 in.	.152	.085	...	12

Above prices are for carload lots or more.

Asphaltum—Price per ton in packages:

	Brand	
New York	Mexican	$19.50
Chicago	Mexican	22.00
San Francisco	California	12.50

Rosendale Cement—Price to dealers for 500 bbl. or over, f.o.b., including bags:

New York	$0.90

30c. allowed for bags

Wood Block Paving—

Chicago	4 in. block 16 lb. treatment	$2.05 sq.yd.
St. Louis	4 in. block 16 lb. treatment	1.46 sq.yd

Linseed Oil—These prices are per gallon:

	New York Dec. 4, 1916	New York Six Months Ago	Cleveland Dec. 4, 1916	Cleveland Six Months Ago	Chicago Dec. 4, 1916	Chicago Six Months Ago
Raw in barrels	$0.98	$0.72	$1.05	$0.73	$1.03	$0.75
5-gal. cans	1.08	.82	1.15	.83	1.13	.85

Boiled, 1c. per gal. additional.

White and Red Lead, in cents per pound, as follows:

	Red Dec. 4, 1916 Dry	Red Dec. 4, 1916 In Oil	Red 6 Months Ago Dry	Red 6 Months Ago In Oil	White Dec. 4, 1916 Dry and In Oil	White 6 Months Ago Dry and In Oil
100-lb. keg	10.50	11.00	10.50	11.00	10.50	10.50
25- and 50-lb. kegs	10.75	11.25	10.75	11.25	10.75	10.75
12½-lb. keg	11.00	11.50	11.00	11.50	11.00	11.00
1- to 5-lb. cans	12.50	12.50	12.50	12.50	12.50	12.50

MISCELLANEOUS METALS

Miscellaneous Metals—The present quotations in cents per pound with a comparison of practically a month and a year ago are as follows:

	New York Dec. 4, 1916	New York One Month Ago	New York One Year Ago
Copper, electrolytic (carload lots)	35.00	29.00	20.00
Tin	45.50	41.75	38.50
Lead	7.25	7.00	5.25
Spelter	12.75	10.50	17.50

ST. LOUIS

Lead	....	7.00	....
Spelter	....	10.50	....

Old Metals—The following are the dealers' purchasing prices in cents per pound:

	New York Dec. 4, 1916	New York One Year Ago	Cleveland Dec. 4, 1916	Cleveland Six Months Ago
Copper, heavy and crucible	27.50	16.50	29.00	25.00
Copper, heavy and wire	26.50	16.00	28.50	24.00
Copper, light and bottoms	23.00	14.00	25.00	20.00
Lead, heavy	6.10	4.50	6.25	6.00
Lead, tea	5.50	4.25	5.00	5.00
Brass, heavy	15.50	11.50	17.00	19.00
Brass, light	13.00	9.50	13.00	12.50
No. 1 yellow rod brass turnings	16.50	12.00	15.50	14.50
Zinc	8.50	12.00	9.00	12.00

The Westinghouse Electric and Manufacturing Co., Pittsburgh, Penn., announces an extension of its present bonus system to include salaried and office employees on hourly rates, by which they will receive a bonus of 8% of their salaries each month providing their total excusable time absent and late during the month does not exceed 6 hr. in not over three occasions. An additional 4% will be given each month to the employee who has not lost any time from work during the month through absence or tardiness, thus enabling those affected to obtain an increase in earnings of 12% for a 100% attendance.

Capt. W. S. Warner, 100-2 Lafayette St., Tampa, plans to build an 8,000-ton seagoing barge which will be used as a floating plant to gather and convert the immense masses of seaweed of the Sargasso Sea into potash. He would like to receive estimates on the cost of construction materials for this barge and fertilizer plant, such as concrete and reinforcing steel, and also mechanical equipment.

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Maine—Lewiston, Augusta & Waterville St. Ry. plans to extend line from Lewiston to Rumford. A. H. Ford, Portland, Gen. Mgr.

Pennsylvania—Cambria & Indiana R.R. making surveys for line from Nant-y-Glo to Revloc, about 6 mi. S. H. Jenks, Ebensburg, Ch. Engr.

Pennsylvania—Denver & Ephrata Ry. granted charter for electric railway from Ephrata to Denver. H. S. Dissler, Ephrata, Pres.

Md., Hagerstown—Hagerstown & Frederick Railway Co. plans to extend line from Hagerstown. M. A. Pooler, Frederick, Gen. Mgr.

West Virginia—A. S. Hecker, Pittsburgh, Penn., and H. E. De Jarnette, Princeton, applied for franchise to construct steam, electric or horsepower railway from Princeton to Athens, about 5 or 6 mi.

South Carolina—Carolina Rapid Transit Co., Clinton, made surveys electric railway from Spartanburg to Clinton. R. Tull, Spartanburg, Ch. Engr. Noted Feb. 3.

Mississippi—Fernwood & Gulf Railroad Co. plans line from Kokomo to Columbia, about 12 mi. W. D. Hurt, Fernwood, Ch. Engr.

Mississippi—Meridian & Deepwater Ry. to build line from Meridian east to Myrtlewood, Ala., about 47 mi., to connect with Louisville & Nashville R.R. S. A. Neville, Meridian, Pres.

Louisiana—Natches, Urania & Ruston Railway Co. plans line from Castor to Olla, about 4 mi., next year. H. E. Hardtner, Urania, Pres. and Gen. Mgr.

Tennessee—Tennessee Ry. plans line from Indian Creek to Morgan County line, 4¼ mi. T. F. Whittelsey, Oneida, Gen. Mgr.

Kentucky—Cumberland & Manchester R.R. plans line from Garrards to Big Double Creek, about 20 mi. C. F. Heidrick, Barbourville, Gen. Mgr.

Kentucky—Mobray-Robinson Lumber Co., Cincinnati, interested in railway from point on Louisville & Nashville R.R., Perry County, up middle fork Kentucky River, Leslie County, about 25 mi. Surveys now being made. Address H. C. Williams, Ch. Engr. Constr., Louisville & Nashville R.R., Louisville.

Ohio—O. A. Charles, Tiffin, interested in electric railway from Toledo to Tiffin and Marion.

Ohio—Council granted franchise to Columbus Railway, Power and Light Co. to double-track line on East 11th Ave. from 4th St. to Field Ave. E. K. Stewart, 14-16 North High St., Columbus, Ch. Engr.

Ohio—Ohio Electric Ry., Cincinnati, plans to extend North 4th St. car line, Newark, to northwestern part of city. A. Benham, Interurban Bldg., Springfield, Gen. Mgr.

Michigan—Grand Rapids, Grand Haven & Muskegon Ry., Grand Rapids, plans to double-track line, first 10 mi. to be built next year and 3 mi. each year thereafter until line is completed. W. K. Moreley, Grand Rapids, Gen. Mgr.

Illinois—Chicago & Alton R.R. plans to double-track line from Roodhouse to Kansas City, Mo. H. T. Douglas, Jr., Transportation Bldg., Chicago, Ch. Engr.

Illinois—Tampico, Loraine & Western Railway Co., Springfield, recently incorporated with $255,000 capital stock, plans line from Tampico to point near west line of Henry County. D. J. Evans and R. J. Kerr, interested.

Minnesota—Duluth St. Ry. plans to extend car line from Duluth to Proctor. H. Warren, Duluth, Gen. Mgr.

Arkansas—Pine Bluff & Northern Ry. plans line from Fletcher to Pine Bluff, about 35 mi. J. K. Riffle, Southern Trust Bldg., Little Rock, Receiver.

Wyoming—Union Pacific R.R. made plans for completing double-tracking of line through Wyoming. Plans include enlarging Sherman Hill Tunnel west of Cheyenne, double-tracking 33 mi. from Archer to Pine Bluff and 36 mi. west of Cheyenne. About $4,000,000. R. L. Huntley, Omaha, Neb., Ch. Engr.

Missouri—Chicago, Burlington & Quincy Ry. applied to Pub. Ser. Comn. of Missouri for permission to build line from Monroe City to Moberly, about 40 mi. W. L. Breckenridge, Chicago, Ch. Engr.

Missouri—Kansas City Terminal Railway Co. plans line from Kansas City, Mo., to Kansas City, Kan., about 4 mi. J. V. Hanna, Kansas City, Mo., Ch. Engr.

Missouri—Ozark Valley Ry. plans line from Cascade to Buckhorn, about 4 mi. C. A. Long, Williamsville, Gen. Mgr.

Texas—Bryan & Central Texas Interurban Ry. plans line from Whittaker to Wilcox, about 7 mi., next year. L. M. Levenson, Bryan, Gen. Mgr.

Idaho—Chicago, Milwaukee & St. Paul Ry. secured right-of-way extension to Clearwater timber belt from Elk River, Lewiston. C. F. Loweth, Chicago, Ch. Engr.

Oregon—Oregon Electric Ry. plans steam line from Albany to timber belt near Cascadia. A. M. Lupfer, 848 Pittock Blk., Portland, Ch. Engr.

California—Tidewater Southern Railway Co. plans to extend branch of Stockton-Modesto line to Manteca. J. H. Wallace, Stockton, Ch. Engr.

Quebec—Canada & Gulf Terminal Ry. plans line from Mantane to Gaspe Basin, 250 mi. E. L. Holloway, Mantane, Ch. Engr.

Manitoba—Winnipeg Electric Ry., Winnipeg, plans line to Transcona. W. Phillips, Winnipeg, Gen. Mgr.

Alberta—Peace River, Mackenzie & Copper Mine River Ry. applied to Parliament for certificate of incorporation to build railway from Sawbridge on Edmonton, Dunvegan & British Columbia Ry. to Vermillion via east end of Losser Slave Lake to Bellrock on Great Slave River, about 500 mi.

Bids In and Contracts Awarded

New York—Buffalo & Depew Ry. to build line from Depew to Lancaster next year by company forces. W. L. Upson, Depew, Gen. Mgr. and Ch. Engr., M. W. Noted Nov. 16.

Pennsylvania—Pennsylvania RR. let contract grading and masonry work at Morrisville yards to H. S. KERBAUGH, INC., 6 Church St., New York. Noted Oct. 26.

D. C., Washington—Capitol Traction Co. making plans double-tracking line south on 18th St. to C St. to relieve congestion at 15th St. and New York Ave. Plans include terminal loop around triangle between 18th and C St. and Virginia Ave. About $100,000. Work to be done by day labor. J. Fleming, 36th and M St., N. W., Washington, Pur. Agt. Noted Oct. 26.

Oklahoma—Kansas & Oklahoma Southern Railway Co. let contract line from Caney to Ft. Smith, Ark., 165 mi., to S. STEPHENSON SONS & CO., New Haven, Conn., who have sublet work to RAILROAD CONSTRUCTION CO., 1 Union Sq., New York.

LIGHT, HEAT AND POWER

Proposed Work

Vt., Salisbury—Addison Electric Co. making plans hydro-electric plant.

R. I., Pawtucket—Jencks Spinning Co. plans 100x100-ft., brick power plant on Weedon St.

Penn., Annville—H. E. Millard plans electric power plant.

Va., Shenandoah—City voted to enlarge and extend electric-light plant.

Fla., Lake Butler—City voted $10,000 bonds for building electric-light plant. B. M. Wilson, Mayor. Noted Oct. 19.

Ky., Glasgow—Kentucky Utilities Co. purchased site, plans central power plant. H. Reid ,Lexington, Pres.

Ohio, Belpre—Council granted Kanawha Traction and Electric Co., Parkersburg, W. Va., franchise to install electric-light and power plant in Belpre.

Ohio, Elyria—Elyria Memorial Hospital receiving bids Dec. 15 1-story power plant. About $5,000. P. Rissman, Eylria Bldg., Arch.

Ohio, Radnor—Bd. Education, Radnor School Dist., receiving bids Dec. 9 transmission line and transformer station for centralized school buildings. R. W. Jones, Clk.

Ohio, St. Marys—City voted $60,000 bonds for extending and improving municipal electric-light plant.

Ohio, Warren—Trumbull Public Service Co. plans to remodel its plant.

Mich., Escanaba—City plans extending electric-lighting system.

Ill., Allendale—City plans electric-light plant. A. Greathouse, West Salem, interested.

Ill., Lovington—City plans improving electric-light plant.

Ill., Winthrop Harbor—Village Bd. making plans electric-light system.

Wis., Portage—Southern Wisconsin Power Co., First National Bank Bldg., Milwaukee, making plans power plant in Portage. Woodmansee & Davidson, 208 South La Salle St., Chicago, Ill., Engr.

Wis., Windsor—Wisconsin Power Co. granted franchise to build transmission line.

Iowa, Bloomfield—City plans improving electric-light plant. About $25,000.

Iowa, Delhi—Bd. Railroad Comrs. of Iowa granted franchise to Iowa Electric Co. to build electric transmission line from Delhi to Oneida and Worthington.

Iowa, Elma—Consumers Electric Co. plans extending transmission line from Elma to Riceville.

Iowa, Spencer—(Official)—City receiving bids Dec. 18, electric-light and power plant. C. J. O'Keefe, City Clk. (See adv.)

Iowa, Webster City—City plans improving electric-light and water plants.

Minn., Askove—City plans electric-light system.

Minn., New Ulm—City plans extending electric-lighting system.

Minn., Virginia—Great Northern Power Co. plans addition to plant, and 66,000-volt transmission line from Thomson to Virginia.

Kan., Moran—City receiving bids Dec. 18 electric-light plant. About $12,000. W. F. Young, City Clk. Noted Nov. 30.

Kan., Mullinville—City plans transmission line and distribution system. **About $10,000.** R. Culley, City Clk.

Kan., Munden—City making preliminary plans electric-light plant. **W. H. Stenad, City Clk.** Noted Nov. 16.

Neb., Fremont—City plans improving electric-light plant. About $20,000. C. R. De La Matyr, City Clk.

Wyo., Meeteetse—G. A. Reding, Meeteetse plans electric-light system.

Mo., Kirkwood—City plans improving electric-light plant. About $8,000.

Mo., Trenton—Trenton Gas and Electric Co. plans 75 mi., 26,000 volt transmission line.

Tex., Forney—Texas Light and Power Co. plans extending its power-transmission line; also street-lighting system. E. Oram, Elec. Engr.

Tex., Gustine—W. T. Ball, Comanche, plans electric-light system in Gustine.

Tex., Houston—Houston Light and Power Co. plans enlarging its light and power plant.

Tex., Nordheim—Texas Southern Electric Co. plans extending power transmission line; also electric-light system.

Tex., Streetman—Corsicana Gas and Electric Co. applied to Council for franchise to install electric light and power plant. J. Carpenter, Gen. Mgr.

Tex., Valley View—Motion Picture Theater plans electric-light plant. A. Jones, Mgr.

Okla., Morrison—City soon to vote on $7,000 bonds for installing electric-lighting system.

Okla., Mounds—City plans electric-light plant.

Idaho, Boise—State Utilities Comn. granted E. Goodman permission to install electric-light plant on Fayette River.

Utah, Brigham—City plans voting on $10,000 bonds for rebuilding electric-light plant.

Wash., Cashmere—Council made plans, and soon votes on $50,000 bonds for building hydro-electric power plant on Wenatchee River. O. M. Carter, Supt. Water and Light Dept.

Ont., Hawkesbury—Riordon Pulp and Paper Co. plans addition to boiler house in Hawkesbury, Ont., not in Hawkesbury, Vt., as noted in issue of Nov. 23.

Bids In and Contracts Awarded

Mass., Fall River—Ancona Co. let contract 1-story, 24x25-ft. addition to boiler house to BEATTIE & CONELL, 33 North Quarry St., $4,100.

Mass., Springfield—W. Carter Co. let contract 1-story, 60x60-ft. boiler house to E. T. DAVIS & SON CO., 120 Broadway, New York. Noted Oct. 26.

N. J., New Brunswick—Middlesex County rejected bids power house and electric-light plant. A. Merchant, 363 George St., Arch.

Penn., Polk—State Institute for Feeble Minded let contract boiler house and power plant to C. F. HAMILTON, INC., Franklin, $33,217.

Calif., Terra Bella—Terra Bella Irrigation Dist. let contract power-lines, transformer stations, etc., to CITY ELECTRIC SUPPLY CO., Riverside, $44,400.

BRIDGES

Proposed Work

Mass., Franklin—Milford, Attleboro & Woonsocket St. Railway Co., 500 Main St., Springfield, soon receives bids bridge. H. C. Page, Worcester, Gen. Mgr.

Conn., New Britain—City plans 2 bridges across west canal. W. H. Hall, City Engr.

N. Y., Bennington—(Official)—City defeated $7,500 bonds to build bridge and highway. Noted Oct. 26.

N. Y., Highland—Ulster County plans bridge. Address County Clk., Kingston.

N. J., Camden—United New Jersey Railroad and Canal Co., operated by Pennsylvania R.R., made plans trestle and bridge from 36th St., Camden, to Petty's Island. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

N. J., Newark—Bd. Freeholders Essex County soon receive bids concrete bridge with steel beams over Second River on Mt. Prospect Ave. About $30,000. F. A. Reimer, Court House, Hackensack, Engr. Noted Nov. 23.

Penn., Baden—Beaver County plans bridge over Ohio River between Baden and Woodlawn. Address County Clk., Baden.

Penn., Clearfield—Clearfield County plans concrete bridge over Sandy Creek. Address County Clk., Clearfield.

Penn., Coudersport—State Water Comn. approved plans concrete bridges in Potter County, over Whites Corner and North Fork.

Penn., Erie—State Water Comrs. approved plans concrete bridge over Pine Run on Elgin Rd. Address County Clk., Erie.

Penn., Oil City—Pennsylvania R.R. plans bridge for Buffalo-Pittsburgh Division. About $2,000,000. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Penn., Reading—Berks County making plans rein.-con. bridge over Willow Creek near Barkley; also new bridge over Swamp Creek in Colebrookdale, north New Berlinville. E. Ulrich, Reading, County Engr.

Va., Portsmouth—Com. of Rds. and Bridges, Norfolk County, plans to repair West Norfolk Bridge. About $6,000. Address Clk., Portsmouth.

Va., Richmond—Atlantic Coast Line Ry. plans concrete arch bridge in connection with freight terminal improvement. J. E. Willoughby, Wilmington, N. C., Ch. Engr.

Bridges (Continued)

W. Va., Huntington—Cabell County Court receiving bids Jan. 4 superstructure of Four Pole Bridge. About $50,000. Oliver & Maupin, Huntington, County Engr.

Fla., Clearwater—Pinellas County plans election to vote on $70,000 bonds to build bridge over Boca Ceiga Bay. Address County Clk., Clearwater.

Fla., Tampa—Tampa & St. Petersburg Ry. made plans concrete railway and toll bridge with two 1,000-ft. archways over Old Tampa Bay. About $1,000,000. F. M. Williams, 410½ Franklin St., Tampa, interested. Noted July 20.

Ala., Clayton—Barbour County Comrs. plans 2 bridges across Pea River. Address County Clk., Clayton.

Ky., Barbourville — (Official) — Fiscal Court, Knox County, receiving bids Dec. 9, superstructure bridge over Big Richland Creek. G. G. Fetter Co., Louisville, Engr.

Ky., Barbourville — (Official) — Fiscal Court, Knox County, receiving bids Dec. 9, bridge over Stinking Creek. G. G. Fetter Co., Louisville, Engr.

Ohio, Columbus—City approved $1,500,000 bonds to build bridges over Scioto River.

Ohio, Dayton—Montgomery County receiving bids Dec. 18 west approach to Bridge No. 174 over Great Miami River known as West Carrollton Bridge, over Great Miami River. W. H. Azsling, Dayton, Clk. Noted Nov. 9.

Ohio, Franklin—Warren County receiving bids Dec. 11 bridge over Miami and Erie Canal on 6th St. M. E. Ross, Lebanon, County Clk. Noted Nov. 9.

Ohio, New Philadelphia—Tuscarawas County plans bridge at East Center St., repairing bridge over Beaver Dam Creek on Beaver Ave., bridge over Sugarcreek on intercounty road No. 414.

Ohio, Youngstown—City plans $5,000 bond issue to build bridge and viaduct repair. F. M. Lillie, City Engr.

Ohio, Youngstown—Mahoning County voted bonds to build bridge at Youngstown, and Coitsville Township voted to build bridge and fill over Dry Run. Address County Clk., Youngstown.

Ind., Ft. Wayne—Allen County receiving bids Dec. 27, 3-span rein.-con. arch bridge over St. Joseph River. About $65,000. A. W. Grosvenor, 408 Bass Blk., Engr.

Ill., Geneva—Kane County soon lets contract bridge on Main St. About $40,000. G. N. Lamb, Geneva, County Supt. Highways.

Ill., Momence—Kankakee County plans concrete bridge over north branch river at Momence. F. M. Enos, Kankakee, Supt. Highways.

Ill., Rockford—Coosa County receiving bids Dec. 11 2 concrete bridges. L. Thomas, Rockford, Judge Probate.

Wis., Dodgeville—Com. on Rds. and Bridges recommended that $12,935 be spent for bridge work next year.

Wis., Rice Lake—City voted to build bridge over Red Cedar River on Main St. J. H. A. Brantz, Mankato, Minn., Consult. Engr. Noted Nov. 2.

Iowa, Atlantic—Cass County making plans three 32-ft. and two 24-ft. I-beam span bridges and 2 rein.-con. box culverts. H. S. Williams, Atlantic, County Engr.

Iowa, Hampton—Franklin County making plans 5 bridges. A. G. Baker, Hampton, County Engr.

Iowa, Sioux City—Woodbury County plans bridges and culverts in Arlington, Banner, Concord, Floyd, Moville and Woodbury Townships. E. E. Hosmer, Sioux City, County Audr.

Iowa, Storm Lake—Buena Vista County making plans 60-ft. and 130-ft. truss span bridges, also concrete deck girder span and concrete box culvert. G. K. McCullough, Storm Lake, Engr.

Minn., Albany—Great Northern & Soo R.R. plans steel bridge. About $80,000. A. H. Hogeland, St. Paul, Ch. Engr.

Minn., Bemidji—Beltrami County receiving bids Dec. 8 40 bridges over Ditch No. 36, about $12,476; 40 over Ditch No. 30, about $13,529; 15 over Ditch No. 31, about $4,143. T. Swinson, Bemidji, Engr.

Minn., Duluth—St. Louis County appropriated $49,000 bridge over St. Louis River between Duluth and Fond du Lac. Address County Clk., Duluth. Noted Aug. 10.

Neb., Scotts Bluff—Scotts Bluff County sold $65,000 bonds to build bridges. Noted Nov. 2.

N. D., Grafton—See item under "Streets and Roads."

Mont., Hardin—Big Horn County voted $37,000 to build bridge over Big Horn River. J. E. Graham, Hardin, County Engr. Noted Nov. 2.

Mo., Carrollton—(Official)—Carroll County defeated $100,000 bonds to build bridges. Address County Clk., Carrollton. Noted Oct. 12.

Mo., Joplin—City plans 1,300-ft. viaduct on East 7th St. J. J. McAfee, City Engr.

Mo., St. Charles—Citizens of St. Charles and St. Louis plan bridge across Misouri River between 2 cities. E. R. Kinsey, Pres. Bd. Pub. Ser., St. Louis.

Mo., Unionville—(Official)—Putnam County defeated $100,000 bonds to build bridges. Address County Clk., Unionville. Noted Nov. 23.

Mo., Webb City—City plans 2,100-ft. viaduct on East Daugher St. L. E. Briggs, City Engr.

Ark., Eureka Springs—Rd. Comrs. Carroll County, Dist. No. 1, plan 350-ft. steel bridge over White River. E. M. Bare, Eureka Springs, Secy.

Tex., Ballinger—Citizens northwestern part Runnels County petitioned Comrs. Court to build bridge over Colorado River. Address County Clk., Ballinger.

Tex., Laredo—Webb County receiving bids Dec. 15 steel bridge across Santa Isabel River. J. A. Rodriguez, Laredo, County Clk.

Tex., Port Arthur—Comrs. Court, Jefferson County, soon lets contract bridge over Alligator Bayou. About $6,000.

Tex., San Angelo—Tom Green County appropriated $8,000 for bridge or viaduct over North Concho River, South Irving St. Address County Clk., San Angelo.

Okla., McAlester—(Official)—Pittsburgh County Comrs. plan election in July to vote on bonds to build bridge across South Canadian River, near Canadian and Eufalfa. Noted Nov. 16.

Okla., Pryor—Mayes County plans 2 approaches to free bridge over Grand River. Address County Clk., Pryor.

Okla., Tahlequah—Cherokee County soon to vote on $100,000 bonds to build roads and bridges. Address County Clk., Tahlequah. Noted Nov. 23.

Wash., Seattle—King County receiving bids Dec. 12 Brisack Bridge over Snoqualmie River south North Bend. Proposed bridge to be 102 ft. long, 20 ft. wide, Howe truss. About $9,000,000. Address County Clk., Seattle.

Ore., Baker—City making plans steel bridge over Powder River on Center St. L. R. Stockman, City Engr.

Calif., Los Angeles—Los Angeles County appropriated $5,000 as share of cost of Ivanhoe Bridge over Los Angeles River. City to bear remaining cost. H. Hamlin, City Engr.

Calif., San Diego—City defeated $50,000 bonds to build bridge over San Diego River. Noted Aug. 31.

Ont., Port Arthur—Council plans bridge over McIntyre River. T. F. Milne, Clk.

Ont., St. Thomas—Michigan Central Ry. plans rein.-con. bridges at Muncey and Alvinston. About $65,000. G. H. Webb, Detroit, Ch. Engr.

Bids In and Contracts Awarded

N. H., Woodsville—Haverhill County let contract bridge between Woodsville, N. H., and Wells River, Vt., to UNITED CONSTRUCTION CO., 24 James St., Albany, N. Y. Noted Mar. 30.

N. Y., New York—(Manhattan)—(Official)—P. T. Cox Contracting Co., Tribune Bldg., $104,806, low bidder improving southerly portion Manhattan Bridge.

Penn., Johnstown—Council let contract concrete bridge over Stony River between 8th and 7th Wards to HACKEDORN CONSTRUCTION CO., Indianapolis. Noted Sept. 28.

Fla., Clearwater—Pinellas County let contract bridge over Anclote River to CONVERSE BRIDGE AND STEEL CO., Chattanooga, about $10,018. Noted Sept. 21.

Fla., Tarpon Springs—Pinellas County let contract bridge over Anclote River to CONVERSE BRIDGE AND STEEL CO., Chattanooga, about $26,538. Noted Oct. 5.

Ga., Bainbridge—Decatur County to build bridge over Flint River by convict labor. Noted Nov. 30.

Ohio, Wapakoneta—Auglaize County rejected bids for Wetstone Bridge, Logan Township, and Crow Bridge, Moulton Township. Noted Aug. 17.

Ohio, Youngstown—H. B. Reinsayer, Principal Asst. Engr., New York Central R.R., relet contract bridge over railway tracks on East Federal St. and Himrod Ave. to CARMICHAEL-CRYDER CO., International Life Bldg., St. Louis, Mo., $124,384. Noted Nov. 23.

Ind., Terre Haute—County received low bid McKeen Bridge, M. & P. Construction Co., Hatfield, $4,254; Altekruse Bridge, Carpenter Construction Co., Terre Haute, $10,600; Ferguson Bridge, Crabb & Landine, Sullivan, $8,984.

Iowa, Fairfield—Bd. Supervs., Jefferson County, let contract Merrimac Bridge to OTTUMWA SUPPLY AND CONSTRUCTION CO., Ottumwa, $19,999. Noted Nov. 16.

Minn., Breckenridge—Wilkin County let contract 4 bridges to GREAT NORTHERN BRIDGE CO., 635 Lumber Exchange, Minneapolis. Noted Apr. 13.

Mo., Kansas City—(Official)—Bd. Park Comrs. let contract concrete bridge over Blue River on 71st St., Swope Park, to HORTON CONCRETE CONSTRUCTION CO., 520 Reliance Bldg., Kansas City, $144,943. Noted Oct. 26.

Mo., St. Charles—Kelly-Adkinson, Chicago, Ill., submitted low bid bridge across Mississippi River. About $200,000. Hedrick & Hedrick, Kansas City, Engr. Noted Oct. 19.

Okla., Claremore—(Official)—Rogers County let contract steel bridge to MISSOURI VALLEY BRIDGE AND IRON WORKS, Leavenworth. About $21,000. Noted Oct. 19.

Okla., Frederick—Tillman County let contract bridges to J. T. HIGHTOWER.

Wash., Seattle—Bd. Pub. Wks. received bids rein.-con. approach to Freeman Ave. bridge over Lake Union from Graff & Sheldon, Tacoma, $19,305, and Pacific States Construction Co., Seattle, $29,816. F. A. Rapp, Bridge Engr.

Ore., Eugene—Lane County let contract bridge in Acme to WOODWARD & DYER, [illegible]100.

Calif., Merced—Bd. Supervs., Merced County, let contract bridge No. 47, on Middle Rd. over San Luis Creek, to W. H. McELROY, Merced, $5,360.

WATER-WORKS

Proposed Work

Mass., Gloucester—City plans water-works. J. W. Moran, Supt.

Mass., Lowell—City plans 8-in. water main in Stedman, Lafayette and Bernlee St. R. J. Thomas, Supt.

Mass., Pittsfield—City plans reservoir. J. Wise, Supt.

N. Y., Canton—City voted $180,000 bonds to build gravity system at water-works. L. R. Smith, Supt. Noted Nov. 23.

N. Y., New York—(Bronx)—(Official)—W. Williams, Comr. Water-Supply, Gas and Electricity, Municipal Bldg., Manhattan, receiving bids Dec. 11, water mains in West 170th St. and Merriam Ave.

N. Y., New York—(Manhattan)—(Official)—W. Williams, Comr. Water-Supply, Gas and Electricity, Municipal Bldg., Manhattan, receiving bids Dec. 11, water mains in 5th and 6th Ave. and East 38th St.

N. J., Bayonne—City plans reservoir and pumping plant, also mains in various streets. Tribus & Massa, 86 Warren St., New York, Engr.

Penn., Germantown—(Philadelphia post office)—Council plans water mains in portion Ogontz Ave.

Penn., Johnstown—Morrellville and Cambria Water Co. plans filter plant, at F St. and Chandler Ave. W. H. C. Ramsey, Supt.

W. Va., Cameron—City plans election to vote on $60,000 bonds, $25,000 to be used to extend water mains. L. R. Lowe, Supt.

N. C., Clayton—City receiving bids Dec. 15 for 650 ft. 6-in. and 2,000 ft. 8-in. c.-i. pipe, hydrants and valves. T. M. White, Supt. Water and Light Dept.

N. C., Wilmington—City plans to extend water mains. About $6,000. D. L. Struthers, City Engr.

S. C., Chesterfield—Commercial Club interested in project to install water-works.

S. C., Clover—Ctiy voted $30,000 bonds to build water-works.

La., Houma—City voted bonds to install water system. L. A. Tucker, Supt.

Tenn., Rogersville—City sold $25,000 bonds to build water-works. Noted Nov. 2.

Ohio, Marietta—City plans to improve water system. W. M. Morse, Supt.

Ohio, Sandusky—Comrs. passed ordinance, water mains in Lane and Sycamore Line St., also approved plans, sewer in Railroad St. N. Cronewett, Supt.

Ill., Park Ridge—(Official)—Bd. Local Impvts. receiving bids Dec. 12 water mains and sewer system.

Ill., Watseka—Council plans drilling well. J. L. Smiley, Comr.

Wis., Green Bay—City plans $35,000 bond issue for installation of water-works. J. P. Flatly, Supt.

Wis., New Richmond—City plans bond issue to build water-works. E. Halverston, Supt.

Iowa, Mapleton—Water Comn. soon receives bids, well.

Iowa, Ossian—City to vote Dec. 11 on $8,000 bonds extending water system.

Iowa, Sioux City—City plans extending water mains. About $40,000 or $45,000. P. Carlin, Supt.

Iowa, Stuart—(Official)—City receiving bids Dec. 12 39,000 ft. c.-i. pipe and extending water system. T. S. DeLat, Creston, Civil Engr.

Iowa, Webster—See item under "Light, Heat and Power."

Minn., Goodhue—City receiving bids Dec. 18 for sale of bonds to build water-works. O. E. Kyllo, Village Clk.

Minn., Minneapolis—City plans water main from filtration plant to river. About $300,000. J. A. Jenson, Supt.

Neb., Benson—Citizens voted to build water system. B. J. Viola, Benson, Engr. C. H. Hollestelle, City Clk.

Neb., Bristow—City voted bonds to extend water system.

S. D., Arlington—City sold $10,000 bonds to build water-works. R. W. Nash, Supt.

Mont., Wilsall—City plans water system.

Mo., Richmond—City plans to extend water mains and install new filter plant. Election in spring to vote on $20,000 bonds for work. J. L. Farris, Jr., Mayor.

Water-Works (Continued)

Tex., Higgins—City voted $20,000 bonds to install water system. Noted Oct. 26.

Okla., Beggs—City sold $42,000 bonds to install water system. Noted Nov. 16.

Okla., Kendall—City plans election to vote on $45,000 bonds to install water-works. Noted May 25.

Okla., Tulsa—F. Newkirk, City Audr., receiving bids Dec. 18 filter plant. Stevens & Stiles, 222 Commercial Trust Bldg., Kansas City, Mo., Engr. Noted Nov. 30.

Idaho, Rexburg—City plans water pipe line from Moody Creek to Rexburg. P. O. Thompson, Supt.

Utah, Midvale—City voted $35,000 bonds to build water-works.

Wash., Everett—Snohomish County receiving bids Dec. 11, pumping plant and water system for tuberculosis hospital. Address County Clk., Snohomish.

Wash., Monroe—State Bd. Control, Olympia, approved plans water system at State Reformatory. About $88,000.

Wash., Wenatchee—City plans filter plant. About $25,000 or $30,000. C. T. White, Comr.

Calif., Corcoran—Corcoran Water and Gas Co. soon to let contract, 50,000-gal. steel tank and pumping machinery. About $10,000. W. R. Mayer, Supt. Noted Nov. 9.

Calif., Sacramento—City to vote on $4,500,000 or $6,000,000 bonds to build filter plant. F. C. Miller, City Engr. Noted June 15.

Calif., San Diego—City voted $682,000 bonds to build pipe line from Otay dam site to Bonita "Y." M. M. O'Shaughnessy, 2732 Vallego St., San Francisco, Engr. H. R. Fay, Supt. Noted Oct. 19.

Calif., Seal Beach—Election Dec. 21 to vote on $30,000 bonds to install water system.

Calif., Sunnyvale—City voted $15,000 bonds to build water-works. Noted Nov. 30.

N. S., Dartmouth—Council plans water and sewer system. About $6,800. W. L. Bishop, Supt.

Que., Chicoutimi—P. Laberge plans water system. J. A. Cleaveau, Engr.

Ont., Hamilton—Council plans 20,000,000-gal. reservoir. About $601,660. J. Bauer, Supt.

Ont., Sandwich—Council plans water mains and sewer. About $20,457 and $23,122 respectively. E. R. North, Clk.

Ont., Springfield—Central Pipe Line Co. plans 3-in. pipe line from Richmond to Springfield and additional wells in Richmond Dist. F. Rand, Aylmer, Mgr.

Bids In and Contracts Awarded

Mass., Swampscott—City let contract trenching for water pipes on Shaw Estate, Arbutus, Aspen, Stimpson and Sargent Rd. to L. MARINO.

N. Y., Rensslaer—Bayer Bros. Co. let contract filter plant to FEENEY & SHEEHAN BUILDING CO., 165 Montgomery St., Albany, $5,000.

N. Y., Rome—(Official)—City to install water mains in Francis St. by day labor. Noted Nov. 23.

Md., Jessups—Maryland House of Correction to install water system by day labor. About $40,000.

Ohio, Ironton—City let contract filter plant to MODERN CONSTRUCTION CO. Bonds for $375,000 voted for work. Noted Aug. 10.

Ill., Bloomington—Bd. Local Impvts. received no bids for 6-in. c.-i. water mains on Front, East, Prairie and Yale St. Noted Oct. 26.

Iowa, Sioux City—City let contract well to A. C. SAVAGE, $15,000.

Minn., Duluth—City received low bid, Lakewood Pumping Station, from Jacobson Bros., 410 Columbia Bldg. Noted Nov. 23.

Minn., Ironton—City let contract extending water mains to PASTORET CONSTRUCTION CO., Duluth.

Minn., Winthrop—City let contract sewer system, 75,000-gal. tank, tower and pumping station to GAYLORD HARDWARE CO., Winthrop, $45,490.

Mont., Troy—Council let contract water system to W. L. GEIST, St. Maries, Idaho, $12,765.

Tex., Hamilton—City let contract water system to W. E. HENDERSON, Sweetwater, $31,400.

Idaho, Lewiston—(Official)—City let contract 2 turbine pumps to FAIRBANKS-MORSE and WESTINGHOUSE CO., Spokane, Wash., $5,302. Noted Nov. 16.

Calif., San Raefael—Marin Municipal Water Dist. received low bid, tunnel under Pine Mountain, from McLeran & Peterson, Sharon Bldg., San Francisco, $257,400. Noted Nov. 16.

SEWERS

Proposed Work

Mass., Reading—Town voted $100,000 to install sewer system. F. A. Barbour, 73 Tremont St., Boston, Engr. Noted Aug. 31.

N. J., Union—(Official)—Bd. Comrs. Union Township, Odd Fellows' Hall, 505 Valley Brook Ave., Lyndhurst, receiving bids Dec. 11 for completing sewage disposal works. T. F. Bowe, East Rutherford. Engr. (See adv).

Penn., Connellsville—State Comn. of Health authorized city to install disposal plant. C. F. Hirst, City Engr.

Penn., Dubois—City plans sewage-works. About $75,000. M. H. Matthes, Land Title Bldg., Philadelphia, Engr.

Penn., Lebanon—(Official)—City soon receives bids sanitary and storm sewers and disposal plant. P. A. Volcker, City Engr. Noted Mar. 23.

Ga., Cairo—(Official)—City postponed election to vote on $28,000 bonds to build sewers. Noted Nov. 9.

Ohio, Amherst—Village voted to install sanitary sewer system in West Martin Ave. and West Side. Noted Nov. 9.

Ohio, Sandusky—See item under "Water-Works."

Ohio, Tiffin—Bd. Pub. Ser. soon receives bids, North Sandusky St. Sewer.

Ind., Brazil—(Official)—City plans disposal plant. F. C. Wilson, City Engr.

Ind., Indianapolis—Bd. Pub. Wks. passed resolutions, sewers in Arsenal Ave., 28th and 30th St., about $4,350. B. J. T. Jeup, City Engr.

Mich., Muskegon—City making preliminary plans, sewer. P. Grimes, City Engr.

Ill., Park Ridge—See item under "Water-Works."

Wis., Racine—Street Com. plans extending sewer system. About $45,000. P. H Connolly, City Engr.

Iowa, Rockwell City—Council receiving bids Feb. 5, disposal plant. About $10,000. F. E. Burnham, City Engr. Noted Nov. 16.

Iowa, Sioux City—City plans extending sewer system.

Iowa, Stuart—(Official)—City receiving bids Dec. 12, sewer system, outlet and disposal plant.

Minn., Duluth—City plans sewers in portions Jefferson and Halifax St. A Ayers, City Engr.

Minn., Eveleth—City plans 14,000 ft. 16-in. sewers.

Kan., Sedan—Council receiving bids Dec. 12 for sewers, disposal plant and laterals in Dists. Nos. 3 and 4. E. T. Archer & Co., New England Bldg., Kansas City, Consult. Engr.

Mo., Higginsville—(Official)—City rejected bids, sewer system and disposal plant. New bids. Noted Oct. 19.

Mo., Hillsboro—City Comrs. authorized plans made, sewer system.

Tex., Ballinger—City making plans improvements and addition to sewer system.

Tex., Dallas—City rejected bids, storm sewer in San Jacinto St. New bids. H. Moseley, City Engr.

Tex., Lockhart—City sold $35,000 bonds to build sewer system and disposal plant. H. E. Elrod, Dallas, Consult. Engr. Noted Nov. 23.

Tex., Victoria—Dallas Lime and Gravel Co., Dallas, made plans, disposal plant. About $35,000. P. Trevino, Victoria, Engr.

Okla., Kendall—City soon votes on $50,000 bonds to build sewers.

Idaho, Moscow—City plans to issue $50,000 bonds to extend sewer system. About $50,000. Noted Nov. 9.

Idaho, Orofino—Bd. Trustees passed ordinance, sewer system in Dist. No. 1. I. B. W. Kinne, Village Clk.

Idaho, Pocatello—City receiving bids Dec. 16, sanitary sewers in Lateral Dist. No. 11. J. H. Giles, City Engr.

Utah, Ogden—City soon receives bids, storm sewer, in portion Madison Ave. About $30,000. J. M. Tracy, City Engr.

Utah, Salt Lake City—City Comn. soon receives bids, outlet to sewer system. About $60,000.

Nev., Minden—Dangeberg Land and Livestock Co. plans sanitary sewer system and disposal plant.

Wash., Seattle—Bd. Pub. Wks. made plans, sewers in West and North 45th St About $16,000. A. H. Dimock, City Engr.

Ore., Portland—Council receiving bids Dec. 13 Tanner Creek Sewer. About $250,000. P. H. Dater, City Engr. Noted Oct. 26.

Calif., Hermosa Beach—(Official)—City Trustees rejected bids for disposal and treatment plant. New bids in January. Noted Nov. 2.

N. S., Dartmouth—See item under "Water-Works."

Ont., Ford—Town making plans sewer system. About $112,915. T. A. Murray, 303 Lumsden Bldg., Toronto, Engr. Noted Nov. 30.

Ont., Hamilton—Council soon receives bids, sewer in Rosslyn Ave. About $33,000. E. R. Gray, City Engr.

Ont., Toronto—Bd. Control receiving bids Jan. 16, centrifugal sewer pump, 40,000,000-gal., at pumping station. T. L. Church, Chn. Bd

Ont., St. Catherines—City making plans sewer in East End. W. P. Neal, City Engr.

B. C., Vancouver—City soon lets contract sewer in west end section. About $100,000.

Bids In and Contracts Awarded

Mass., West Springfield—Town to build sewer system in Tatham Dist. by day labor.

N. Y., New York—(Queens)—(Official)—M. E. Connolly, Boro. Pres., Long Island City, received low bids Dec. 1, sewers in portions streets as follows: (a) Grand Ave., (b) Nott Ave., (c) Hull Ave., (d) Forest Parkway, (e) Kimball Ave., (f) Maure Ave., (g) Ridgewood Ave., (h) Benedict Ave., (i) Hatch St, (j) Jamaica Ave., (k) Robinson Ave., from E. W. Fitzpatrick, 128 3rd Ave., (a) $23,766; A. Decker, (b) $44,318; Ajax Dredging and Contracting Corp., (c) $70,334; J. H. Johnson, (d) $9,963; (e) $8,622; (h) $7,238; (i) $9,853; J. C. Schrade, 20 Main St., (f) $68,822; Peace Bros., (g) $5,897; (j) $8,892; Green Contracting Co., (k) $11,858. Noted Nov. 23.

Penn., Meadville—City to let contract sanitary sewers in Morgan, Miller and Pine St. to KEYSTONE CONSTRUCTION CO., 926 Diamond Sq., Meadville.

Penn., Pen Argyle—Lehigh & New England Railroad Co., Philadelphia, let contract disposal plant to RICHARDSON CONSTRUCTION CO., Connell Bldg., Wilkes-Barre. About $12,000.

Penn., Winton—(Official)—Borough let contract sanitary sewer to D. LAWLER, Olyphant, $4,580. Noted Nov. 23.

Ohio, Canton—Dept. Pub. Ser. let contract 1,055 ft. 12- and 24-in. vitrified sewer pipe, manholes and catch basins in 2nd St. to WISE BROS., $21,076.

Ohio, Lorain—(Official)—City let contract sewers in several streets to C. D. COLE, $5,000; RANDALL & COOPER, $5,000. Noted Oct. 26.

Ohio, Toledo—City let contract Sanitary Sewer No. 1308 to G. A. GESSNER CO., 815 Nicholas Bldg., Toledo. About $40,830.

Ohio, West Park—(Official)—City received low bid, storm and sanitary sewers, from Monson Co., 345 The Arcade, Cleveland, $18,667, $92,730. Noted Nov. 23.

Ind., Evansville—City let contract sewer to EVANSVILLE PLUMBING CO., 1026 West Franklin St., Evansville.

Ind., Kokomo—City let contract Loretta St. and Virginia Ave. to O. B. PETERS, Kokomo, $4,674. Noted May 4.

Ill., Cuba—City let contract sewer system to E. H. HARDIN, Racine, Wis. About $25,000.

Wis., Milwaukee—Dept. Pub. Wks. received low bids, portion Richards St. Sewer, from G. E. Zimmerman and J. B. Forestal. Noted Nov. 9.

Iowa, Clinton—City let contract sewer to T. CAREY & SON, Clinton.

Minn., Duluth—(Official)—City to install sewers, portion 6th Alley and 101st St., by day labor. Noted Nov. 23.

Minn., Red Wing—(Official)—City to install sewer in Buchanan St. by day labor. Noted Nov. 23.

Neb., Red Cloud—(Official)—City let contract sewers to ELKHORN CONSTRUCTION CO., Fremont, $20,882.

Mo., Kansas City—City let contract sewer in Dist. No. 348, Div. No. 4, to W. C. MULLINS, 1230 Montgall, $83,613.

Tex., Seymour—(Official)—City let contract sewer system and disposal plant to JAMES CONTRACTING CO., Guthrie, Okla., $24,500. Noted Oct. 5.

Calif., Long Beach—City received low bids, pumps for Sewer Dist. No. 3, from Tomich & Jaeger, 553 Pacific St., $37,000; S. M. Kerns, 322 Temple St., $39,000; J. Ukropina, 705 Bernardo St., Los Angeles, $41,000. Noted Nov. 2.

Calif., San Francisco—Bd. Pub. Wks. let contract sewer in Glen Park to K. EHRHART, 660 Market St., $6,500.

Ont., London—Council to install sanitary sewers in William St. by day labor. About $5,000.

Ont., Toronto—Bd. Control let contract sewers to FUSSELL-McREYNOLDS CO., Ltd., 2014 St. Clair Ave., W., $37,250.

B. C., Vancouver—Council let contract disposal plant to H. PETERSON, Clark St., Vancouver, $98,000.

GARBAGE

Proposed Work

N. Y., New York—(Manhattan)—(Official)—Bd. Trustees, Bellevue Hospital, receiving bids Dec. 12, extension to destructor building and power house, at Harlem Hospital, 136th St. and Lenox Ave. J. W. Brannan, M. D., Pres. Bd.

N. Y., Rochester—Council adopted ordinance removal snow and ice during season 1916-17. Work to be done under supervision Comr. Pub. Wks. H. W. Pierce. About $90,000.

Ky., Louisville—Civic organizations considering garbage plant. D. R. Lyman, City Engr. J. H. Buschemeyer, Mayor.

Ohio, Elyria—Council plans combined garbage reduction and sewage disposal plant. C. M. Theobald, City Engr.

Ohio, Warren—City plans new system collecting and disposing garbage. E. L. King, Dir. Pub. Ser.

Ill., Berwyn—City receives bids about Jan. 1, incinerator. About $12,000. Lewis, Capron Co., 900 South Michigan Ave., Chicago, Engr. Noted Oct. 12.

Ill., Chicago—Citizens defeated $2,000,000 bonds disposal of garbage and ashes and to build plants. Noted Oct. 26.

Garbage (Continued)

Calif., Alameda—F. P. Smith, of Consolidated Ser. Co., made proposition to Council to pay city $53,000 for 20-year franchise to collect garbage; also that company will establish reduction plant on Bay Island Farm and garbage to be collected by motor vehicles.

Calif., Marysville—Bd. Health recommended Council install new system collecting and disposing of garbage.

Bids In and Contracts Awarded

Tex., Ballinger—(Official)—City let contract incinerator to STOKES INCINERATOR CO. About $3,500. Noted Nov. 23.

Calif., San Francisco—(Official)—City received low bids garbage disposal from R. Schmidt, at 20c. per ton, and A. B. Moffitt, 22½c. per ton. M. M. O'Shaughnessy, City Engr. F. J. Churchill, Secy. Bd. Pub. Wks.

Ont., New Toronto—Council let contract incinerator to REED PRODUCTS CO., Standard Bldg., about $10,000.

STREETS AND ROADS

Proposed Work

Mass., Holyoke—City plans new street between High and Railroad St. T. J. McCarthy, City Engr.

Mass., Lynn—Council voted $30,000 bonds, $15,000 to pave Commercial St and $15,000 to pave Western Ave. and Floating Bridge. W. L. Vennard, City Engr.

Mass., New Bedford—Council appropriated $53,000 for improving highways. G. N. Nye, City Engr.

R. I., Warwick—Town voted $16,000 bonds to build roads. J. T. Lockwood, Apponang, Town Clk.

Conn., Hartford—City plans to widen and pave Park St. R. N. Clark, City Engr.

Conn., Wallingford—City has $18,000 available for paving next year. W. A. McKenzie, City Engr.

N. Y., Brook Haven—Town plans to spend $77,417 to build roads in 1917. C. E. Dean, Supt. Highways.

N. Y., Watervliet—Bd. Estimate and Apportionment plans to issue $300,000 bonds for paving.

N. J., Camden—City making plans paving Chase and South 8th St. and Ephraim Ave., asphalt; also resurfacing Market St. asphalt. I. E. Farnham, City Engr.

N. J., Clifton—Bd. Freeholders Passaic County plan to improve Main St., Acquackanonck Township Pub. Ser. Corp., Newark, to bear part cost. Address County Clk., Paterson.

N. J., Cranford—City voted $15,000 bonds to improve roads.

N. J., Linden—City voted $20,000 bonds to improve roads.

N. J., Newark—Bd. Freeholders Essex County plan to pave Fairview Ave., about $20,000; Grove St., $10,000; South Orange Ave., $15,000; Hobart Gap, $10,000; Roseland St., $10,000. F. A. Reimer, Newark, County Engr.

N. J., Newark—Bd. Street and Water Comrs. receiving bids Dec. 14 improving portions 4th and North 2nd St. M. R. Sherrard, City Engr.

N. J., New Brunswick—Middlesex County to receive $75,000 from state automobile funds repair of roads. E. A. Stevens, Trenton, State Rd. Comr. Noted May 18.

N. J., Rutherford—Town Comn. appropriated $12,867 for improving portion Park Ave. R. M. Watson, City Engr.

N. J., Sussex—Bd. Freeholders, Sussex County, sold $25,000 bonds to improve roads.

N. J., West Orange—Town plans to improve Valley Rd., Main St. and Ashland Ave. Mead & Taylor, Engr.

Penn., Clifton Heights—Borough voted $70,000 bonds. Part proceeds to be used for paving streets.

Penn., Pittsburgh—City plans to pave and curb Eureka St., about $12,500, and Smith Way, about $13,000. R. Swan, City Engr.

Penn., Wilkes-Barre—City soon to let contract extending portion Elizabeth St. B. K. Finch, City Engr.

Penn., Wilkes-Barre—Council passed ordinance improving portion Brook St. B. K Finch, City Engr.

Va., Charlotteville—Albemarle County plans highway from Nortonsville to Charlotteville, including bridge over Lynch River. Address J. M. Frye, Charlotteville.

W. Va., New Cumberland—Hancock County, Poe Dist., sold $40,000 bonds to build roads. Contract to be let in March. C. E. Grafton, New Cumberland, County Engr. Noted Apr. 6.

W. Va., New Cumberland—Hancock County, Grant Dist., sold $125,000 bonds to improve roads Contract to be let in March. Address County Clk., New Cumberland. Noted May 18.

W. Va., New Cumberland—Hancock County, Clay Dist., sold $40,000 bonds to build roads. Contract to be let in March. Address County Clk., New Cumberland. Noted May 18.

W. Va., Welch—(Official)—McDowell County Court receiving bids Dec. 15, grading, surfacing, draining and bridges on 36 mi. Public Rd. in Sandy River Dist. W. W. White, Clk. (See adv.)

N. C., Newland—Avery County appropriated $12,000 road from Edgemont to Carolina & Northwestern R.R. through Cragg Settlement. Address County Clk., Newland.

N. C., Wilmington—City plans to improve portions Water, Nutt and Front St. About $30,000. D. L. Struthers, City Engr.

Fla., Ft. Myers—Lee County, Special Rd. and Bridge Dist. No. 5, voted $190,000 bonds to build 42½ mi. roads. Address County Clk., Ft. Myers. Noted Oct. 19.

Fla., Jacksonville—Council plans paving, concrete, portions Laura, Forsyth and Hogan St.

Ala., Gadsden—City sold $35,000 bonds paving streets. Contracts soon to be let. E. Smith, Engr.

Miss., Ackerman—Bd. Supervs., Choctaw County, sold $25,000 bonds to build roads Address County Clk., Ackerman. Noted Aug. 10.

Miss., Brookhaven—Bd. Supervs., Lincoln County, sold $95,000 bonds to build roads in Dist. No. 4 and $80,000 in Dist. No. 2.

La., Monroe—Bd. Superv., Quachita County, Dist. No. 1, receiving bids Dec. 18, improving Monroe-Columbia and Monroe-Millhaven Rd. Address County Clk., Monroe.

La., New Orleans—City plans paving, creosoted wood block. About $750,000. W. J. Hardee, City Engr.

Tenn., Fayetteville—Lincoln County plans to hard-surface Jackson Highway from Wells Hill to Alabama line. About $1,000 per mile. Address County Clk., Fayetteville.

Tenn., Knoxville—City plans to curb and gutter various streets in 4 new districts. J. E. McMillan, Mayor. Noted Aug. 17.

Ky., Owensboro—(Official)—Davies County Fiscal Court receiving bids Dec. 12, Letchfield Rd. R. Wiley, Comr. Pub. Rd. Noted Nov. 16.

Ky., Owensboro—(Official)—Davies County Fiscal Court receiving bids Dec. 12, St. Joseph, Hawesville and Rockport Rd. R. Wiley, Comr. Pub. Rd.

Ohio, Bellaire—Council authorized plans made paving Crescent, 29th and Guerney St. A. J. Morton, City Engr.

Ohio, Cincinnati—Hamilton County plans improving Asbury Rd. About $18,000. W. Boeh, Cincinnati, County Surv.

Ohio, Cincinnati—City soon receives bids improving portion Eastern Ave., granite block, also laying 12-in. water mains and cement walks. About $197,139. F. S. Krug, City Engr. Noted Sept. 28.

Ohio, Columbus—L. A. Olcott, Member of Council, recommended $500,000 bond issue paving and widening North High and 4th St. and Main and Cleveland Ave. H. Maetzel, City Engr.

Ohio, Crooksville—Citizens voted $9,000 bonds to improve streets.

Ohio, Kent—(Official)—City receives bids in spring paving Lake, Columbus, Summit and Park St., about 10,000 sq.yd. brick, asphalt or concrete, and 18,000 ft. stone curb. E. S. Royer, City Engr. Noted Sept. 14.

Ohio, Marion—Marion County plans to spend about $140,000 new roads next year. W. E. Weston, Marion, County Surv.

Ohio, Martins Ferry—City plans to repave Belmont and Guernsey St.

Ohio, Mt. Vernon—Knox County plans to improve road between Mt. Vernon and Howard. Address County Clk., Mt. Vernon.

Ohio, New Bremen—City plans to pave Main, Franklin and Pearl St. G. Champ, The Nasby, Toledo, Engr.

Ohio, Shaker Heights—(Cleveland post office)—City receiving bids Dec. 19, improving portion Kemper Rd. C. A. Palmer, Clk.

Ind., Balbec—Jay County plans to pave road from Balbec to line between Jay and Wells Counties, also road between Union St., Pennville, and Balbec. Address County Clk., Balbec.

Ind., Goshen—Elkhart County plans to improve 2 mi. Middlebury Rd., brick. W. Gillette, Goshen, Surv.

Ind., Terre Haute—City received no bids paving streets Nov. 22. Work postponed until spring. F. A. Rattman, City Engr.

Ind., Topeka—Lagrange County plans 5-mi. gravel road between Topeka and Emma. Address County Clk., Topeka.

Mich., Flint—City plans paving. About $52,000. E. C. Shoecraft, City Engr.

Mich., Flint—Genesee County plans to build gravel roads. About $1,000,000. G. McVannell, Flint, County Engr. Noted Nov. 30.

Mich., Grand Rapids—City plans to issue $324,000 bonds to improve streets and build sewers. W. S. Moore, City Engr.

Mich., Laurium—Township Highway Officials plan concrete highway between Red Jacket and Laurium. G. Martin, Clk.

Mich., St. Johns—Clinton County defeated $200,000 bonds to build roads. Address County Clk., St. Johns. Noted May 11.

Ill., Benton—City making plans hard roads in West Frankfort, and Denning Townships. A. C. Powell, Engr.

Ill., Chicago—Business men and residents of north and west side and city officials favor plan of Chicago Plan Comn. to extend Ogden Ave. from Union Park northeast to Lincoln Park. About $4,000,000. J. Ericson, City Engr.

Ill., Freeport—Stephenson County defeated $850,000 bonds to build roads. Address County Clk., Freeport. Noted Nov. 2.

Ill., Gillespie—Town making plans paving, curbing and guttering Main St. About $27,000. A. S. Morse, Carlinville, Engr. Noted Sept. 14.

Ill., Grayville—City making plans paving 8 mi. streets. G. W. Coulter, Mt. Carmel, Engr.

Ill., Kankakee—Kankakee County to vote Jan. 14 on $750,000 bonds to improve roads. Address County Clk., Kankakee. Noted Feb. 24.

Ill., Urbana—City to let contract in spring 30 blocks paving. A. M. Doneley, City Engr.

Wis., Augusta—Eau Claire County plans election in spring to vote on $750,000 bonds to build roads. Address County Clk., Eau Claire.

Wis., Baraboo—Sauk County appropriated $12,000 road near Greenfield. S. H. Wood, Baraboo, County Audr.

Wis., Chilton—City appropriated $500,000 to build trunk roads. J. Roell, City Clk.

Wis., Dodgeville—Com. on Rds. and Bridges recommended that $14,336 be spent for road work next year.

Wis., Eau Claire—Eau Claire County voted $750,000 bonds to build roads. Address County Clk. Noted Nov. 9.

Wis., Fond du Lac—City receiving bids Jan. 1 cement and concrete paving. About $19,835. J. S. McCullough, City Engr.

Wis., Mondovi—Buffalo County election Dec. 23 to vote on $14,000 bonds to build roads. H. B. Pace, Alma, County Clk.

Wis., New London—City receiving bids in December paving portion Wyman St.; concrete. T. R. Roberts, Court House, Green Bay, Engr. Noted Nov. 30.

Wis., Rhinelander—Oneida County plans to spend about $43,000 road work next year. J. Verage, Rhinelander, County Clk.

Iowa, Algona—(Official)—City receiving bids Jan. 11 40,000 sq-yd. paving, 40,000 lin.ft. curb and gutter. T. S. Delay, Creston, Consult. Engr. Noted Oct. 26.

Iowa, Harlan—Council defeated proposition paving 51 blocks.

Iowa, Rock Rapids—Lyon County soon receives bids 16 mi. road. About $70,000. E. J. Riegel, Rock Rapids, Audr.

Iowa, Tracer—City plans paving streets.

Minn., Bagley—Clearwater County appropriated $10,000 and State Highway Comn. will contribute like amount for road work. H. K. Rude, Bagley, Audr.

Minn., Long Prairie—Todd County plans to spend $25,000 roadwork next year. E. M. Berg, County Audr.

Minn., Princeton—Mille Lacs County voted $75,000 to build roads. W. C. Doane, Princeton, Audr. Noted Nov. 2.

Kan., Chanute—City soon recevies bids macadamizing roads. C. Pratt, City Engr.

Kan., Clay Center—Council passed ordinance paving various streets. About $43,000. Address County Clk., Clay Center.

Kan., Columbus—Council passed resolution paving 12 blocks and 3 alleys.

Kan., Ft. Scott—(Official)—Bourbon County receiving bids Dec. 18, 11½ mi macadam on Pawnee Rd. and 7½ mi. on Walktertown Rd. E. E. Toles, Court House, Engr. Noted Nov. 16.

Kan., Topeka—W. S. Gearhart, State Engr., making surveys hard-surface highway between Topeka and Kansas City.

S. D., Huron—City soon receives bids improving portion 4th St. asphalt or concrete. J. B. Sullivan, City Engr.

N. D., Grafton—Walsh County plans to spend $14,000 road and bridge work next year. W. C. Treuman, Grafton, Audr.

Wyo., Cody—Park County Comrs. soon receive bids for road through Shoshone Canyon. Address County Clk., Cody.

Mont., Butte—City receiving bids Dec. 20 improving Montana St., 26,856 sq.yd paving, 7,066 lin.ft. gutter, 300 lin.ft. curb and gutter, 4,165 lin.ft. 10-in. vitrified or cement sewer pipe, 12 manholes with covers and 18 catch-basins with covers. J. J. Armstrong, City Engr. Noted July 20.

Mo., Kansas City—City plans improving Oak St. About $700,000. C. Hill, City Engr.

Ark., Augusta—State Highway Comn. soon to let contract, highway between Augusta and Fitzhugh. About $53,000.

Ark., Forrest City—City approved plans paving about 6 mi. streets, asphalt or macadam, about $40,000. Lund & Hill, Little Rock, Engr. Noted Sept. 28.

Tex., Columbus—Colorado County election Jan. 16 to vote on $100,000 bonds to build road through county 3 to 8 mi. wide from Wharton County line east of Eagle Lake to Fayette County line west Weimer. Address County Clk., Columbus.

Tex., Corpus Christi—City plans 24,000 sq.yd. paving on Leopard and Staples St.

Tex., Daingerfield—Morris County, Rd. Dist. No. 1, approved $20,000 bond issue to build roads.

Tex., Dallas—City Comrs. authorized paving portion Maple Ave. and Cedar Springs Rd. Bids soon. H. Moseley, City Engr.

Streets and Roads (Continued)

Tex., Dallas—Comrs. plan improving portion Sanger Ave. About $20,000. H. Moseley, City Engr.

Tex., Denton—Denton County votes Dec. 21 on $1,000,000 bonds to build roads. Address County Clk., Denton. Noted Nov. 30.

Tex., Ft. Worth—City Comn. soon lets contract paving portion East Terrell Ave., bitulithic. About $46,000. F. J. Von Zuben, City Engr. Noted Nov. 30.

Tex., Galveston—City receiving bids Dec. 18, brick paving and sidewalks on seawall boulevard. A. T. Dickey, City Engr. Noted Nov. 23.

Tex., Kerens—Kerens Independent Rd. Dist. voted $150,000 bonds to build roads.

Tex., Lockhart—Caldwell County, Delhi Dist., voted $5,000 bonds to improve roads. Address County Clk., Lockhart.

Tex., Plainview—City plans paving streets.

Okla., Curtis—Curtis Township votes in December on bonds to build roads.

Okla., McAlester—Comrs. Plattsburg County soon votes on $600,000 bonds to build roads and bridges. W. S. O'Neal, McAlester, County Clk. Noted May 11.

Okla., Muskogee—Muskogee County plans road work. Address County Clk., Muskogee.

Okla., Tahlequah—See item under "Bridges."

Colo., Boulder—Council soon lets contract paving streets, concrete. G. R. Joslyn, City Engr. Noted Nov. 30.

Idaho, Twin Falls—City plans 8 mi. sidewalks. About $11,376. J. A. Bybee, City Engr.

Ariz., Douglas—City soon to let contract for 60,000 sq.yd. paving. G. N. Wood, City Engr.

Ariz., Yuma—Council plans paving portion First St.

Wash., Asotin—Asotin County receiving bids Dec. 11 Silcott Highway. About $10,000. V. G. Shellman, Asotin, County Engr. Noted June 15.

Wash., Kennewick—City plans to pave principal streets in spring. About $18,000.

Wash., Seattle—Bd. Pub. Wks. soon receives bids for paving portions 2nd Ave., N. E., East 47th, 50th and numerous other streets. A. H. Dimock, City Engr.

Ore., Enterprise—Hollow County plans road work in 1917. About $500,000. R. L. Rudd, Enterprise, County Engr.

Ore., Marshfield—City made preliminary plans Skyline Drive from Marshfield to North Bend. S. Lancaster, Portland, Engr.

Ore., Medford—(Official)—City does not plan hard surfacing streets, as noted in issue of Nov. 9.

Ore., St. Helens—Columbia County plans to improve portion Warren Rd. Address County Clk., St. Helens.

Ore., The Dallas—Wasco County voted $260,000 bonds to build highways. Noted July 6.

Calif., Bangor—Chamber of Commerce favors proposed Feather River Canyon Rd. and its extension beyond Quincy to connect with main highway to east.

Calif., Glendale—Bd. Supervs. Los Angeles County to let contract in December, grading and paving, cement curbs, etc., in Rd. Imp. Dist. No. 116 on Grand View and other avenues.

Calif., Hanford—City voted $200,000 bonds for street improvements. E. M. Lynch, Glendale, Engr. Noted Nov. 30.

Calif., Los Angeles—Los Angeles County soon lets contract, grading and constructing 2¾ mi. Torrance-Redondo Beach Rd. About $33,000. A. M. McPherrin, Los Angeles, County Clk.

Calif., Sacramento—W. L. Clark, Asst. State Highway Engr., making surveys highway from Maricopa to Ventura. Noted Nov. 23.

Calif., San Francisco—Bd. Pub. Wks. plans improving and extending Market St. Blvd. M. M. O'Shaughnessy, City Engr.

Calif., Sanger—Bd. Trustees plans grading, oiling and curbing 4 or 5 mi. streets.

Calif., Santa Ana—City rejected bids coast boulevard. New bids. C. C. Bonebrake, City Engr.

Calif., Ventura—Ventura County sold $150,000 bonds to build roads. Address County Clk., Ventura. Noted Nov. 2.

Calif., Woodland—Citizens of Yolo County plan to issue $1,250,000 bonds to build roads through county. A. G. Proctor, Woodland, Surv. Noted Nov. 30.

Ont., Leamington—City to let contract in spring concrete paving. About $35,000.

Bids In and Contracts Awarded

N. Y., Sprakers—New York Central & Hudson River R.R. let contract highway and demolition steel bridge east Sprakers to WALSH CONSTRUCTION CO., Davenport.

N. J., Flemington—Town rejected bids improving portion Flemington-Sand Brook Rd. Noted Nov. 23.

N. J., Jersey City—Bd. Freeholders Hudson County let contract repairing northerly arch Hudson County Blvd. to W. T. COUGHLIN, 586 Newark Ave., about $51,700.

N. J., Jersey City—(Official)—Bd. Comrs. received low bid paving portion Stegman St., brick, from A. Lietieri, 93½%. Noted Nov. 23.

Ala., Gadsden—City received low bids for paving portion South 4th and South 5th St. from J. F. Morgan & Co., Gadsden, $35,347; Ely Construction Co., Chattanooga, $46,079; Arnold Construction Co., $43,051. Noted July 20 and Sept. 28.

Ky., Corbin—County let contract 17-mi. road to MASON CONSTRUCTION CO., Emanuel, about $36,510.

Ky., Henderson—City let contract Riverside Driveway to C. K. BROWDER, $10,000. Noted Oct. 5.

Ohio, Bowling Green—Wood County let contract improving W. W. Billman and W. Westfield Rds. to C. J. MILLER, Chamber of Commerce Bldg., Toledo, about $7,000 and $6,500, respectively; D. Shanks Rd. to G. E. MERCER, R. F. D., Pemberville, $14,748.

Ohio, Greenville—Darke County let contract improving Yorkshire-Osgood Rd. to H. MANNING, New Watson, about $7,141.

Ohio, Huron—Huron County let contract Johnson Rd., Peru Township, to H. J. BALTS, Norwalk.

Ohio, Lancaster—Fairfield County let contract grading Sect. A, Logan-Lancaster Rd., Berne Township, to O. G. SHAFER, Caldwell, about $5,539.

Ind., Cannelton—Perry County let contract road Oil Township to S. T. FLANAGAN, St. Croix. Noted Sept. 28.

Ind., Ft. Wayne—(Official)—Allen County let contract concrete road in Adams Township to W. J. NEIDHART & CO., Anderson, $31,500. Noted Oct. 26.

Ind., Terre Haute—(Official)—Vigo County let contract gravel road in Harrison and Honey Creek Townships to J. W. CREASEY & SON, Terre Haute, and CARPENTER CONSTRUCTION CO. Noted Nov. 16.

Ind., Terre Haute—County received low bid Stevens Rd. from J. I. Unison, $6,475.

Ill., La Salle—Bd. Local Impvts. let contract paving Crevecoeure St. to F. W. KEYES. Noted Feb. 3.

Iowa, Dallas Center—City let contract J. HORRABIN & CO., Des Moines, 30,000 cu.yd. paving, $1.94 per cu.yd., 20,000 ft. curb and gutter, 10,000 yd. excavation, 48c. per yd.; J. MOFFITT & SON, Perry, curb and gutter, 56¾ per ft. Noted Aug. 31.

Iowa, Muscatine—Muscatine County let contract improving Sects. D and E, Muscatine-Montpelier Rd. to J. G. GRIMM, Wapello. Noted Nov. 9.

Minn., St. Paul—City let contract grading streets to KEOUGH BROS., Otto and Hamline St., about $27,287.

Kan., Leavenworth—Leavenworth County to build stone roadway by convict labor.

Kan., Wichita—City to repave portions Fountain Ave. and 1st and 2nd St. by day labor. Noted Nov. 2.

Mo., Chillicothe—City let contract paving portion West Calhoun St. to J. F. MEEK. Noted Sept. 7.

Mo., Kansas City—(Official)—City let contract paving Milwaukee Ave. to J. E. WELSH, 1122 East Gillham Rd., $2.49 per sq.yd.

Tex., Crockett—Houston County let contract road work to SMITH BROS., Crockett.

Tex., Dallas—City let contract paving San Jacinto St. to TEXAS BITULITHIC CO., $19,785.

N. M., Albuquerque—City let contract paving Central Ave. to J. B. LAUGHLIN, Trinidad, Colo.

Wash., Colfax—(Official)—Whitman County let contract graveling 3¼ mi. Permanent Highway No. 13 to MULLIGAN BROS., 320 Eagle Blk., Spokane, $4,939. Noted Nov. 16.

Wash., Everett—Snohomish County received bids improving Rd. No. 30 from M. Odell, Seattle, $107,292; J. W. Hoover & Co., Everett, $109,439; Washington Paving Co., Seattle, $113,843. Noted Nov. 9.

Wash., Seattle—Bd. Pub. Wks. let contract paving Rainer Ave. to G. ARGENTIERI & CO., $15,343; 47th Ave. to J. L. SMITH, $31,535. Noted Oct. 12.

Wash., Seattle—City let contract improving West 65th St. to J. L. SMITH, 143 21st St., N., about $31,535.

Wash., Seattle—City let contract grading walks, etc., to J. L. SMITH, 143 21st St., N., $31,535; 11th Ave. to WASHINGTON PAVING CO., Smith Bldg., $27,991. Noted Nov. 30.

Wash., Walla Walla—County let contract highway from Walla Walla to Prescott to H. L. WILSON, Walla Walla, about $15,575. Noted June 15.

Calif., Burbank—City let contract improving Santa Anita Ave. to E. SCHELLING.

Calif., Los Angeles—City let contract improving portion Atlantic St. to G. H. OSWALD, 405 O. T. Johnson Bldg., $5,819.

Calif., Los Angeles—City let contract improving Russell Ave. to G. R. CURTIS, 552 South St. Louis St., $9,303.

Calif., Manhattan Beach—City let contract paving portion Blance Rd to CALIFORNIA-ARIZONA CONSTRUCTION CO, 1700 East Washington St., Los Angeles, $10,363.

Calif., Paradise—City to macadamize Neal Grade by day labor.

Calif., San Francisco—City let contract improving Phelan and Ocean Ave. to BLANCHARD-BROWN CO., 660 Market St., $19,263. Noted Nov. 30.

Calif., San Francisco—City let contract improving Academy St. to STATE IMPROVEMENT CO., Crocker Bldg., San Francisco.

Calif., San Francisco—City let contract improving Arthur Ave. to CITY STREET IMPROVEMENT CO., 166 Geary St., $15,080.

Calif., Santa Barbara—City let contract paving Santa Barbara and Pueblo St. to MUNICIPAL IMPROVEMENT CO., $10,851.

Calif., Tulare—City let contract paving to FEDERAL CONSTRUCTION CO., Sharon Bldg., San Francisco, about $19,900.

Calif., Watts—E. S. Croshong, Box 222, Burbank, submitted low bid improving portion Wall and Ann St. and Queen Ave., $6,311.

INDUSTRIAL WORKS

Proposed Work

Vt., Burlington—State of Vermont, Brandon, making plans laundry. About $10,000. I. J. Laurence, 135 College St., Burlington, Arch.

Mass., Boston—(Dorchester)—J. Cusher made plans 45x75-ft. and 102x136-ft. concrete and brick garage and repair shop, Bowdin St. About $35,000. W. P. Hatch, Arch.

Mass., Gardner—Gardner Paper Co. plans mill. About $40,000. C. P. Pearson, Chn. Com.

Mass., New Bedford—Whitman Mills Corporation plans addition. About $40,000.

Mass., Springfield—A. Steiger & Co. making plans 3- or 4-story factory, 265 Main St.

R. I., Providence—Franklin Machine Co making plans addition to foundry. About $15,000. G. P. McCready, 189 Charles St., Mgr. H. A Slocumb, 511 Westminster St., Engr.

Conn., Waterbury—Connecticut Co., 57 North Main St., making plans 1-story, 162x360-ft. car barn. About $125,000. H. L. Wales, Supt. in Waterbury.

N. Y., Dansville—Blum Shoe Co. plans 4-story warehouse. About $18,000. C. W. Eldredge, 316 Cutler Bldg., Rochester, Arch.

N. Y., Lockport—United Motors Corporation making plans addition to plant of Harrison Manufacturing Co., 101 Elm St., recently acquired. About $250,000. J. R. Tyler, German Life Insurance Bldg., Rochester, Arch. Noted Nov. 23.

N. Y., New Rochelle—H. W. Johns-Manville Co., Madison Ave. and 41st St., New York, making preliminary plans 6-story addition.

N. Y., New York—(Bronx)—(Official)—E. S. Napolis, 391 East 149th St., receiving bids 4-story, 80.10x133-ft. brick ice plant, Park Ave. and 168th St. About $150,000. J. L. Plock, 126 Liberty St., Manhattan, Arch.

N. Y., New York—(Brooklyn)—R. Norek, 1102 Eastern Pkway., making plans 1-story, 60x100-ft. garage. About $20,000. Cohn Bros., 361 Stone Ave., Arch.

N. Y., New York—(Brooklyn)—(Official)—National Aniline and Chemical Co., 100 William St., Manhattan, receiving bids 5-story, 65.10x100-ft. brick factory, Rodney St., N. W., near Wyeth Ave. About $100,000. H. R. Kent, 141 Broadway, Manhattan, Arch.

N. Y., New York—(Brooklyn)—H. Resiler, 293 Stone Ave., to make plans 1-story, 52x200-ft., brick and limestone garage, south side Atlantic Ave. near Ralph Ave. About $25,000.

N. Y., New York—(Brooklyn)—(Official)—S. Visconti, 147 Jackson Ave., Long Island City, receiving bids 1-story, 50x100-ft. brick factory, Frost St. and Manhattan Ave. About $10,000. Laspra & Salvati, 525 Grand St., Arch.

N. Y., New York—(Manhattan)—(Official)—Beekman Estate, Inc., 7 East 42nd St., receiving bids 2-story, 75x146-ft. brick laundry, 1st Ave. and 62nd St. S. J. Stammers, 320 5th Ave., Arch.

N. Y., New York—(Manhattan)—C. A. Bruhns, 152 Amsterdam Ave., making plans 4-story, 50x100-ft., brick and steel garage at 225-27 West 66th St. About $35,000. L. A. Sheinart, 194 Bowery, Arch.

N. Y., New York—(Manhattan)—K. M. Eyland made plans fireproof factory, storage and office building at 16 Beekman St. About $65,000. Taylor & Moseley, 40 Wall St., Arch.

N. Y., New York—(Queens)—H. Burkhardt plans plant, Edsall Ave. and Proctor St., Glendale. About $30,000.

N. Y., New York—(Queens)—C. Miller, 48 Beach 119th St., Rockaway Park, made plans 1-story, 100x200-ft. garage. About $75,000. I. Margon, 370 East 149th St., Bronx, Arch.

N. Y., North Tonawanda—Buffalo Sled Co. making plans warehouse and factory. About $150,000. W. Steele & Sons Co., 1500 Arch St., Philadelphia, Arch. C. D. Orcutt, Schenck St., Tonawanda, Mgr.

Industrial Works (Continued)

N. Y., Phelps, Bennett Corp., c/o W. J. Bennett, Sietz Bldg., Syracuse, making plans cement plant. About $1,250,000. Kennedy Engineering Co., 120 Broadway, New York, Engr.

N. Y., Phœnix—Burrows Paper Mill making plans to rebuild 1-story, 58x200-ft. mill. H. D. Phœnix, Union Bldg., Syracuse, Engr.

N. Y., Westfield—E. D. Gear Co., recently incorporated with $100,000 capital stock, plans factory. J. E. W. Bissell interested.

N. J., Asbury Park—J. C. English, Main St. and Asbury Ave., making preliminary plans 3-story, 50x135-ft. auto station and garage, 202 7th Ave. About $50,000. C. B. Cook, 505 Bond St., Arch.

N. J., Elizabeth—S. L. Moore & Sons Corp., Front St., making plans, 1-story, 40x200-ft. brick and steel foundry. About $20,000. Ring-Cleaves Graham Co., 280 Broad St., Arch.

Penn., Franklin—French Creek Foundry Co. made plans building on north branch French Creek.

Penn., Philadelphia—Crescent Ice and Coal Co., Woodland Ave., making plans 1-story, 56x230-ft. brick and steel plant, 25th and Morris St. York Manufacturing Co., Burd Bldg., Arch.

Penn., Philadelphia—Kahn & Greenberg, Morris Bldg., made plans 2-story, 30x160-ft. brick and concrete service building, 1214 North Broad St. L. E. Rothschild, Bulletin Bldg., Arch.

Penn., Stockertown—Hercules Cement Co., Finance Bldg., Philadelphia, making plans plant.

Md., Baltimore—(Official)—Black & Decker Manufacturing Co., 109-15 South Calvert St., purchased site of 10 acres on outskirts of city to be used for future additions. S. D. Black, Pres.

Md., Baltimore—M. W. Crooks, 2608 Pennsylvania Ave., to build 1-story, 195x200-ft. garage. About $35,000. J. R. Gerwig, 1811 Ashburton St., Arch.

D. C., Washington—Georgetown Ice Manufacturing Co. to build plant. About $13,000. C. M. Smith, 3327 K St., Mgr. W. C. Tolson, 1419 Washington St., Arch.

Va., Norfolk—W. P. Cake plans to spend about $50,000 for planing mill and lumber yard.

W. Va., Cabin Creek—(Coalburg post office)—Cabin Creek Refining Co., controlled by Ohio Cities Gas Co., Columbus, plans large plant.

W. Va., Dunbar—Virginian Potteries Co., recently incorporated with $300,000 capital stock, plans plant.

N. C., Brevard—Transylvania Tanning Co. organized with $250,000 capital stock, plans plant of 8 buildings. Main building to be 2-story, 70x650-ft. brick. About $150,000. J. N. Silverstein, Pres. J. M. Kilpatrick, Brevard, in charge construction.

N. C., Greensboro—Gate City Motor Co. made plans 2-story, 67x185-ft. brick garage. About $20,000. C. W. Edwards, Pres.

Miss., Greenwood—Churchill-Milton Lumber Co., Louisville, Ky., plans plant. About $25,000 or $35,000.

Ky., Lexington—Melick Refining Co. plans oil refinery. About $2,500,000. Address D. L. Melick, Lexington.

Ky., Louisville—Standard Oil Co. of Kentucky plans refinery near State Fair Grounds. About $1,000,000.

Ohio, Akron—Klages Coal and Ice Co. plans 1-story plant. About $80,000. A. C. Bishop, Citizens Bldg., Cleveland, Arch. and Engr.

Ohio, Cincinnati—American Radiator Co., 820 South Michigan St., made plans warehouse and storage building.

Ohio, Cleveland—American Bohemian Daily, 5379 Broadway, made plans 3-story publishing plant, Broadway and Mumford Ave. About $28,000.

Ohio, Cleveland—Atlas Bolt and Screw Co., 1289 Marquette Rd., making plans plant, Ivanhoe Rd. About $125,000. W. S. Ferguson Co., 1900 Euclid Ave., Arch. Noted Nov. 16.

Ohio, Cleveland—Belt and Terminal Realty Co. plans 1-story, 110x600-ft. factory. About $150,000. W. S. Ferguson Co., 1900 Euclid Bldg., Arch. and Engr.

Ohio, Cleveland—L. F. Brock and associates plan brass factory, Hamilton and East 49th St. About $40,000.

Ohio, Cleveland—Carbon Hydrogen Co., of America made plans 1-story, 26x100-ft. factory. About $20,000. G. S. King, Permanent Bldg., Arch., soon receives bids.

Ohio, Cleveland—Cleveland Twist Drill Co., Lakewise Ave. and East 49th St., plans 1-story addition. About $18,000.

Ohio, Cleveland—Elliott-Parker Electric Co., 4220 Hamilton Ave., made plans 4-story addition. About $30,000.

Ohio, Cleveland—Euclid Storage Co. soon receives bids 6-story warehouse. About $240,000. G. A. Grieble, 707 Park Bldg., Engr.

Ohio, Cleveland—J. Kleindoldohl plans factory buildings on Hamilton Ave. and East 49th St. First building to cost about $140,000.

Ohio, Cleveland—Lamson & Sessions Co., 2188 Scranton Rd., belt and screw manufacturer, made plans additions. About $32,000.

Ohio, Cleveland—Stark Auto Co., 2034 Euclid Ave., making plans garage, 8920 Euclid Ave. About $100,000.

Ohio, Cleveland—J. A. Wigmore Co. making plans 3-story factory. About $50,000. P. A. Frye, 1330 Williamson Bldg., Secy. and Gen. Mgr. Knox & Elliott, 1246 Rockefeller Bldg., Arch.

Ohio, Covington—Kelley-Koett Co. plans to enlarge plant. B. T. Wisenall, 617 First National Bank Bldg., Cincinnati, Arch.

Ohio, Lorain—Lorain Crystal Ice Co. plans 1-story plant. About $25,000. A. A. Plate, Gen. Mgr. A. C. Bishop, Citizens Bldg., Cleveland, Arch. and Engr

Ind., Evansville—Iglehart Bros., 2214 1st St., making plans 3-story, 70x170-ft. warehouse. About $18,000. F. R. Ingle, 421 Upper 1st St., Arch.

Ind., Logansport—Pennsylvania Lines West of Pittsburgh plans new shop. About $400,000. T. Rodd, Pennsylvania Station, Pittsburgh, Ch. Engr.

Mich., Flint—B. J. McDonald, 221 East 5th St., making plans 1-story, 66x192-ft. garage. About $25,000. H. J. Kaufman, Armory Bldg., Arch.

Mich., Grand Rapids—Kindel Bed Co., Garden and Jefferson Ave., plans 3-story, 80x160-ft. factory. C. Sercle, Mgr.

Mich., River Rouge—Ford Automobile Co., Detroit, making preliminary plans blast furnaces. About $5,000,000. Noted July 13.

Ill., Chicago—Farmers' Packing Co., 154 West Randolph St., making plans 2-story, 50x100-ft. plant. About $50,000.

Ill., Cicero—Automatic Screw Machine Products Co. making plans 1-story, 56x300-ft. factory. About $25,000. Day & Zimmerman, 611 Chestnut St., Philadelphia, Arch. and Engr.

Ill., Litchfield—Hamilton-Brown Shoe Co., 17th and Washington Ave., St. Louis, making plans 5-story, 37x250-ft. factory. About $70,000. A. B. Groves, Stock Exchange Bldg., St. Louis, Arch.

Wis., Kenosha—Winther Motor Truck Co., recently organized with $330,000 capital stock, purchased site on West Side for manufacturing plant.

Wis., La Crosse—Segelke, Kohlhaus Manufacturing Co. plans, 3- or 4-story, 60x180-ft. brick warehouse. Parkinson & Dockendorff, La Crosse, Arch.

Wis., Milwaukee—J. B. A. Kerk & Sons Co., recently incorporated with $150,000 capital stock, purchased site on Commerce St. for flour mill, dockage and warehouse.

Wis., New London—New London Motor Car Co., 9 South Pearl St., plans garage and repair shop. J. Beiumler in charge.

Minn., Duluth—Fountain Faucet Co., 61st Ave., granted permit factory. About $11,000.

Kan., Hutchinson—Labaree Flour Mills Corporation plans flour mill and grain elevator. About $500,000.

Kan., Independence—Western States Portland Cement Co. making plans new plant. About $100,000.

Neb., Omaha—Emerson-Brantingham Co., 1215-19 Leavenworth St., making plans 5-story, 120x132-ft. warehouse. P. W. Berry, Mgr.

Neb., Omaha—Home Builders, Brandeis Theater Bldg., plans 2-story, 99x132-ft. garage. About $30,000. J. T. Allen, 214 Brandeis Theater Bldg., Arch.

Neb., Omaha—D. D. Rullman, c/o Commercial Club, plans 2-story, 100x120-ft. factory for washing machines, 29th St. and Belt Line R.R. About $10,000.

Mo., Kansas City—Gustin-Bacon Manufacturing Co. plans rein.-con. plant. About $35,000. Smith Rea & Lovett, Kansas City, Arch.

Mo., Kansas City—R. T. Romine, 15th and Montgall St., making plans 2-story garage. About $30,000. J. O. Hogg, 946 New York Life Bldg., Arch.

Mo., St. Joseph—F. Brinson, St. Joseph, interested in ice plant, 6th and Atchison St. About $100,000.

Tex., Dallas—Sanger Bros. making plans 12-story warehouse. About $500,000. Lang & Witchell, Dallas, Arch. Noted Nov. 9.

Tex., Ft. Worth—Nissley Creamery Co. granted permit for plant. About $60,000. Noted Aug. 3.

Okla., Oklahoma—Stefen-Bretch Ice and Ice Cream Co. plans ice-storage and cold-storage warehouse.

Wash., North Yakima—Utah-Idaho Sugar Co. plans addition to factory. About $100,000.

Wash., Seattle—Western Gear Works, 1706 4th Ave., plans 2-story, 112x120-ft. plant, 9th Ave. S., and King St.

Calif., Los Angeles—Moreland Motor Truck Co., 1701 North Main St., plans plant. About $1,000,000.

Calif., Modesto—Valley Ice Co. plans plant. About $135,000.

Calif., Oakland—Cardinet Candy Co. plans factory on Market St. About $25,000.

Calif., Oakland—Pacific States Refineries Co., Fruitvale Ave. and Stewart St., plans plant. About $2,000,000.

Calif., San Francisco—L. Gillig plans 3-story, 82x120-ft. building, Post and Franklin St.

Calif., Ventura—S. B. McCloskey and J. Tweedale, Wilmington, plan fish cannery. About $60,000.

Calif., Wilmington—Union Oil Co., 6th and Spring St., Los Angeles, plans refinery. About $2,000,000.

Ont., Cochrane—Frederick House and Abitibi Pulp Wood Co. will be organized to build saw mills, woodworking plant and rosser plant. About $150,000. J. A. McAndrews, Lumsden Bldg., Toronto, interested.

Ont., Hamilton—Tallman Brass Co. plans addition. About $50,000.

Ont., Lindsay—Flavelles, Ltd., plans cold-storage and produce plant. About $75,000.

B. C., Prince Rupert—J. S. Emerson, 744 Hastings St., W., Vancouver, making plans sawmill, dry kilns, shingle and planing mills.

B. C., South Vancouver—D. Milne, Victoria, and G. R. Kennedy, Medicine Hat, Alta., plans rolling mill. About $150,000.

Bids In and Contracts Awarded

Mass., Boston—Alger Land Trust let contract 2-story, 55x106-ft. brick factory, 34 Old Colony Ave., to HOLT-FAIRCHILD CO., Old South Bldg.

Mass., Milton—W. Curtis & Sons Co. let contract saw mill and hydraulic development to H. NAWN CONTRACTING CO., 82 Savin St., Roxbury.

Mass., Springfield—Bozart Rug Co. let contract addition to F. T. LEY CO. About $100,000. Noted Sept. 14.

R. I., Central Falls—Union Wadding Co. let contract 3-story, 60x85-ft. addition to A. F. SMILEY, Oak Hall Bldg., Pawtucket. About $20,000.

R. I., Pawtucket—Glenyon Dye Works let contract 2-story addition to A. F. SMILEY, Oak Hall Bldg.

R. I., Pawtucket—Pawtucket Glazed Paper Co., 1 North Bend St., let contract addition to L. A. MURPHY, 136 Brook St. About $12,000.

R. I., Providence—Grocers' Baking Co. let contract plant, North Main St., to C. I. BIGNEY CONSTRUCTION CO., 898 Westminster St. About $40,000. Noted Oct. 26.

Conn., Bridgeport—Bridgeport Projectile Co. let contract 2-story addition to S. AUSTIN & SONS, 416 Newfield Bldg. About $150,000. Noted Nov. 23.

Conn., Bridgeport—W. P. Kirk Co., 369 Fairfield Ave., let contract factory and store building to T. J. PARDY CONSTRUCTION CO., 15 Fairfield Ave. About $75,000.

N. Y., Amsterdam—Fownes Bros. Co., 119 West 40th St., New York, let contract addition to H. C. GRIEME CO., Erie St., about $45,000.

N. Y., Beacon—Glenham Embroidery Co. let contract 1-story addition to AMSTERDAM BUILDING CO., 140 West 42d St.

N. Y., Depew—Andover Silk Co. let contract plant to B. U. TAYLOR & CO., 254 North Union St., Olean. About $35,000. Noted Sept. 21.

N. Y., New York—(Bronx)—Huntspoint Garage Co., 3210 3rd Ave., let contract garage, Southern Blvd. and Baretto St., to GERMANIA ENGINEERING AND CONSTRUCTION CO., 50 Union Sq., about $40,000.

N. Y., New York—(Brooklyn)—A. Ackerman, 59 Pearl St., let contract garage at 459 12th St., to W. R. SQUIRE, INC., 2 West 33d St., Manhattan. About $30,000. Noted Sept. 21.

N. Y., New York—(Brooklyn)—J. H. Rubin, 19 West 34th St., Manhattan, let contract alterations and additions to N. SARITSKY, 55 3rd Ave., Manhatan, about $20,000.

N. Y., New York—(Brooklyn)—Taylor & Co., 680 Morgan Ave., let contract additions to T. McHUGH, 676 Leonard St.

N. Y., New York—(Manhattan)—Anheuser-Busch Brewing Assoc., 425 11th Ave., let contract ice storage plant to A. BROSE CO., 1 Madison Ave. About $27,000.

N. Y., New York—(Manhattan)—O. Stahl, 2332 3rd Ave., let contract garage, 167 East 127th St., to LUSTBADER CONSTRUCTION CO., 103 Park Ave. About $150,000. Noted Nov. 2.

N. Y., New York—(Richmond)—L. A. Dreyfus Co., Maple Ave., Rosebank, let contract 4-story factory to TURNER CONSTRUCTION CO., 11 Broadway, Manhattan.

N. Y., Stottville—Atlantic Mills let contract 1-story, 80x100-ft. and 60x120-ft. additions to AUSTIN CO., Newfield Bldg., Bridgeport.

N. J., Hoboken—T. H. Carney, 504 West 27th St., New York, let contract 1-story and mezzanine brick factory, Clinton St., to LIMOUZE BROS., 810 Park Ave., Weehawken, about $16,000.

N. J., Jersey City—Air Reduction Co., 50 Broad St., Manhattan, let contract 2 additions to H. D. BEST CO., 52 Vanderbilt Ave., Manhattan. About $75,000.

N. J., Newark—Fiedler Corp., Firemen's Bldg., let contract garage at 524-26 Broad St., to F. FATZIER, 110 Broad St., Newark. About $30,000. Noted Nov. 30.

N. J., Newark—J. H. Meyer Tire Duck Co., 50 Union Sq., New York, let contract factory and boiler house to J. W. BISHOP, Wooster, about $75,000.

Industrial Works (Continued)

N. J., Newark--Standard Oil Co. of New Jersey, 31 Fulton St., let contract 2-story garage, 94-96½ Ogden St., to H. D. BEST CO., 52 Vanderbilt Ave., Manhattan. About $60,000. Noted Nov. 30.

N. J., Paterson—Society for Establishment of Useful Manufactures, Market St., let contract mill to P. S. VAN KIRK CO., 85 Fulton St. About $50,000.

N. J., Perth Amboy—Raritan Copper Works let contract blast furnace foot Elm St. to BERLIN CONSTRUCTION CO., Berlin, Conn. About $10,000. Noted Nov. 9.

Penn., Charleroi—R. C Mounster, 3rd and McKean Ave., let contract storage warehouse to S. W. SHARPNACK, Lock No. 4. About $35,000.

Penn., Easton—W. Kuebler & Sons let contract manufacturing building to A. A. BECHTEL, Easton, about $80,000.

Penn., Philadelphia—Gomery & Schwartz let contract factory, Broad and Cherry St., to CRAMP & CO., Denckla Bldg. About $400,000.

Penn., Philadelphia—Keystone Spinning Mills, 1631 North 2nd St., let contract addition to F. B. DAVIS, 240 North 16th St. About $10,000. Noted Oct. 12.

Penn., Philadelphia—Pottash Bros., 504 North American St., let contract factory to L. FARPSTEIN, 4122 Parkside Ave. Noted Nov. 16.

Penn., Pittsburgh—(Official)—Investment Land Co. let contract warehouse to STONE & WEBSTER ENGINEERING CORPORATION, 120 Broadway, New York. About $600,000.

Md., Baltimore—Baltimore Pearl Hominy Co. let contract warehouse to CONSOLIDATED ENGINEERING CO., Calvert Bldg. About $12,000.

Md., Baltimore—Rennous, Kleinle & Co., 321 Frederick Ave., let contract addition to CONSOLIDATED ENGINEERING CO., 243 Calvert Bldg. About $40,000.

W. Va., Fairmont—Fairmont Chemical Co let contract plant to J. E. CROUSE, Fairmont. About $80,000. Noted Oct. 5.

W. Va., Sistersville—Ryan Boiler Works let general contract plant to BELLEFONTAINE BRIDGE AND STEEL CO., Bellefontaine, Ohio. About $25,000.

N. C., Spencer—Southern Ry. let contract shop to I. P. PETTYJOHN & CO., Lynchburg, Va. Noted Oct. 12.

Ohio, Canton—American Gas Engine Co. let contract warehouse to FERRO CONCRETE CONSTRUCTION CO., Richmond and Harriett St., Cincinnati. About $50,000.

Ohio, Cincinnati—C. Boldt Glass Works, Davis Lane and Pennsylvania R.R., let contract plant to FERRO CONCRETE CONSTRUCTION CO., Richmond and Harriett St. Noted Nov. 2.

Ohio, Cincinnati—Carlton Machine Tool Co., Pine and Queen City Ave., let contract plant, Spring Grove Ave. and Meeker St., to M. MARCUS BUILDING CO., 2023 Reading Rd. About $50,000. Noted Nov. 23.

Ohio, Cincinnati—Moore Oil Co., York and McLean Ave., let contract service station on Reading Rd. to J. B. SCHMITT. Noted Sept. 21.

Ohio, Cleveland—Cadillac Investment Co., East 20th St. and Euclid Ave., let contract garage, 1865 East 30th St., to CROWELL-LUNDORFF-LITTLE CO., 1951 East 57th St. About $100,000. Noted Nov. 23.

Ohio, Cleveland—Cleveland Builders' Supply Co., Leader News Bldg., let contract warehouse, East 131st St., to HUNKIN-CONKEY CONSTRUCTION CO., 321 Cuyahoga Bldg., about $60,000. Noted Nov. 16.

Ohio, Cleveland—Cleveland Machine Tool Works, 3215 Superior Ave., let contract addition to A. J. FRIEDMAN, 563 Hippodrome Annex. About $10,000.

Ohio, Cleveland—Osborn-Crew Manufacturing Co., Perkins Power Blk., let contract factory, East 39th St. and Pennsylvania R.R., to S. W. EMERSON CO., 1041 Engineers' Bldg., about $14,000. Noted Nov. 9.

Ohio, Toledo—Toledo Machine and Tool Co. let contract storage building to H. J. SPIEKER CO., Elm and Utica St. About $20,000. Noted May 4.

Ind., Ft. Wayne—P. A. Moran Ice Co., 801 Monroe St., let contract ice storage building to J. C. SMITH, 1702 East Wayne St. About $30,000. Noted Nov. 9.

Ind., Hammond—Paige & Jones Chemical Co. let contract addition to C. RHOADES. About $10,000.

Ind., Indianapolis—Parrott Tractor Co., Speedway, let contract factory to W. P. JUNGCLAUS CO., 725 Massachusetts Ave. About $40,000.

Ind., Whiting—Standard Oil Co., 72 West Adams St., Chicago, let contract tank shop to AUSTIN CO., 14,230 Euclid Ave., Cleveland. About $225,000.

Mich., Detroit—Burroughs Adding Machine Co., 2nd and Burroughs Ave., let contract 5-story, 66x470-ft. factory to BRYANT & DETWILER, Dime Bank Bldg.

Mich., Detroit—Melvic Enameling Co., 241 Beaufait Ave., let contract addition to H. A. JONES CONSTRUCTION CO., 70 Washington Blvd. About $10,000.

Mich., Wayne—Harroun Motors Corporation let contract warehouse, assembling plant and power house to A. J. SMITH CONSTRUCTION CO., 18 Campau Bldg., Detroit. About $75,000. Noted Oct. 19.

Ill., Chicago—Burnside Steel Co. let contract foundry to G. O. MARTIN, 9223 Cottage Grove Ave. About $30,000.

Ill., Chicago—Chicago River & Indiana R.R. let contract factory on 27th St. to E. W. SPROUL CO., 1120 West 35th St.

Ill., Chicago—R. N. Fair, 2222 Calumet Ave., let contract auto salesroom to A. & E. ANDERSON, 19 South La Salle St. About $100,000.

Ill., Chicago—D. J. Hauptman, 5325 Kenmore Ave., let contract foundry, 1738-42 Kolmer Ave., to SAMKOVITZ BROS., 139 North Clark St. About $15,000.

Ill., Chicago—R. W. Hood, 75 West Adams St., let contract factory to E. CLAYSON, 1307 North Harding St. About $35,000.

Ill., Danville—Sugar Creek Creamery Co. let contract creamery to F. L. KRAUEL, 601 Jewell St. About $50,000. Noted Oct. 12.

Ill., Joliet—Joliet Motor Car Co. let contract garage to W. SMITH. About $50,000.

Ill., Maywood—American Can Co., 120 Broadway, New York, let contract factory to THOMPSON-STARRETT CO., 175 West Jackson Blvd., Chicago. About $200,000

Ill., Moline—Swimming Pool—C. D. Wiman, 817 11th Ave., let contract to H. W. HORST CO., Horst Bldg., Rock Island.

Ill., Rock Island—Illinois Oil Co. to build 3-story, 34x102-ft. paint factory by day labor. About $75,000. F. P. Welch, 1517½ 2nd Ave., Gen. Mgr. Noted Oct. 19.

Wis., Baraboo—Johnson Fuel and Warehouse Co., Walnut and Lynn St., let contract grain elevator to J. C. STRATTON, 808-20 West Jackson St., Chicago. Noted Oct. 19.

Wis., Granville—Borden's Condensed Milk Co. let contract 2-story, 40x60-ft., brick factory to F. SCHOENROCK & SONS, New London.

Wis., Milwaukee—Blatz-Kasten Co., 115 Wisconsin St., let contract 3-story brick and concrete factory, at North Pierce and Center St., to P. RIESEN'S SONS, 1018 Humboldt Ave., Milwaukee. About $22,000. Noted Nov. 23.

Wis., Milwaukee—Maynard Steel Co., 176 Reed St., let contract addition to S. WABISZEWSKI, 880 Layton Blvd. Noted Nov. 9.

Wis., Oshkosh—Diamond Match Co. let contract plant to R. MEYER & SONS, Oshkosh. Noted Dec. 7.

Wis., Valders—Wisconsin Condensed Milk Co., Burlington, let contract plant to W. W. OEFLEIN, North Milwaukee. Noted Sept. 21.

Iowa, Des Moines—Taylor Motor Co. let contract garage to W. F. KUCHARO CO., Hubbell Bldg., about $44,295.

Minn., Minneapolis—Chevrolet Motor Co., 527 South 4th St., let contract garage to J. L. ROBINSON CO., 511 South 7th St. About $25,000. Noted Dec. 2.

Minn., St. Paul—F. Schmidt Brewing Co. let contract bottling plant to LAUER BROS., foot Chestnut St., about $70,000.

Mont., Butte—Hansen Packing Co. let contract 4-story plant to F. R. SMITH, Butte.

Mo., St. Louis—(Official)—Century Electric Co., 21st and Poplar St., let contract 3-story, 60x150-ft., rein.-con. warehouse to WOERMANN CONSTRUCTION CO., Suite 543 Century Bldg.

Okla., Miami—Ottawa County Ice Plant Co. let contract plant to J. J. SHOE, about $10,000. Noted Nov. 9.

Utah, Ogden—Ogden Utah Stock Yards let contract first unit new yards to J. STEWART & CO., about $50,000.

Que., St. Laurent d'Orleans—Canada Stove and Furniture Co., Ltd., let contract factory to F. A. GROTHE, 6 Cuthbert St., Montreal. About $16,000.

Ont., London—London & Port Stanley Ry. let contract enlarging shops to J. HAYMAN & SONS, Wellington St. About $12,000. Noted Nov. 23.

Ont., Toronto—Russell Motor Car Co., King and Duncan St., let contract addition to J. D. YOUNG & SON, 835 College St. About $12,000.

Sask., Swift Current—Campbell, Wilson & Strathdee let contract warehouse to MOORE & McWILLIAMS, Swift Current, about $23,000.

FEDERAL GOVERNMENT WORK

Proposed Work

Penn., Pittsburgh—Air Compressors—U. S. Engr. Office, Pittsburgh, receiving bids Dec. 29, 2 compressors and water turbine, with gear drive, at Lock No. 3, Monongahela River. (See adv.)

Md., Indian Head—Fire System—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Dec. 26, at Naval Proving Ground. Noted Nov. 16.

D. C., Washington—Grading—Comrs., Washington, receiving bids Dec. 14, 201,000-cu.yd. on certain streets. (See adv.)

D. C., Washington—Traveling Cranes—F. R. Harris, Bureau Yards and Docks, Navy Dept., Washington, receiving bids Dec. 26, at Navy Yards in Norfolk, Va., and Philadelphia, Penn.

Va., Norfolk—Steam Heating System—Bureau Yards and Docks, Navy Dept., Washington, making plans. About $15,000.

W. Va., Wheeling—Lock and Guide Walls—U. S. Engr. Office, Wheeling, receiving bids Dec. 30, for Dams Nos. 23 and 25, Ohio River. (See adv.)

La., New Orleans—Iron and Wrought Steel Work—Lighthouse Inspector, New Orleans, receiving bids Dec. 28, Sabine Bank Light Station. (See adv.)

Ill., Mt. Carmel—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Dec. 26.

Panama—Miscellaneous Supplies—Gen. Pur. Officer, Panama Canal, receiving bids Dec. 12, Circular 2092.

Panama—Miscellaneous Supplies—Gen. Pur. Officer, Panama Canal, receiving bids Dec. 29, Circular 1105.

Bids In and Contracts Awarded

Mass., Chelsea—Sea Wall—Bureau Yards and Docks, Navy Dept., Washington, D. C., let contract to CAPE ANN CORPORATION, Beverley, $17,425. Noted Nov. 16.

N. Y., New York—Dredging—U. S. Engineer Office, Room 710, Armory Bldg., received low bids, Hudson River Channel, (a) Jersey City, (b) Weehawken-Edgewater, from Morris & Cumings Dredging Co., 17 State St., New York, (a) 18.93c.; (b) 23.93c.; Coastwise Dredging Co., Norfolk, Va., (a) 20.3c.; E. Breymann, Boston, Mass., (a) 15.25c.; (b) 19.25c. Noted Nov. 2.

N. J., East Orange—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., received low bids (a) limestone, (b) sandstone, from W. H. Fissell & Co., 1328 Broadway, (a) $147,000, (b) $149,000; E. T. Abbott Construction Co., 1133 Broadway, (a) $148,500, (b) $149,500; J. G. Unkefer & Co., Minerva, Ohio, (a) $156,000, (b) $157,500. Noted Oct. 26.

Del., Reedy Island—Wharf Improvement—Government let contract to NEWPORT CONTRACTING AND ENGINEERING CO., Newport News, $9,757. Noted Nov. 9.

Md., Annapolis—Sea Wall—Bureau of Yards and Docks, Navy Dept., Washington, D. C., received low bids, rein.-con., at U. S. Naval Academy, Annapolis, from Dorsey & Miller Co., Corcoran Bldg., Washington, D. C., Phoenix Construction Co., 41 Park Row, New York; Sanford & Brooks, 24 Commerce St., Baltimore. Noted Nov. 2.

D. C., Washington—Track Work—Dist. Comrs. received low bid Nov. 27 from Cranford Paving Co., 2620 East, N. W. St., Washington.

D. C., Washington—Sewers—Dist. Comrs. received low bids Nov. 28, (1) Sect. 8, Rock Creek Main Interceptor; (2) Sect. 7, 8, 9 and 10, Anacostia Main Interceptor; (a) excavation, (b) concrete masonry "E," (c) vitrified brick masonry, (d) sewer brick masonry; G. Hyman, 2117 East, N. W., (1a) $10, (1b) $7.50, (1c) $20, (1d) $15; (2a) $1.25, (2b) $7.50, (2c) $21, (2d) $15; W. F. Cush, 201 South, N. E., (1a) $49, (1b) $7.90, (1c) $23, (1d) $14; (2a) $0.85, (2b) $8.20, (2c) $23, (2d) $14; W. F. Brenizer Co., Q St. near 1st, N. W., (1a) $0.40, (1b) $8.10, (1c) $21, (1d) $16; (2a) $0.75, (2b) $8.25, (2c) $24, (2d) $15.

Tex., Sabine Pass—Jetty Work—U. S. Engr. Office, Dallas, received low bid, Sabine Pass, from D. M. PICTON & CO., Galveston, about $268,000. Noted Oct. 19.

Wash., Ft. Flagler—Outlet Sewer—Const. Quartermaster, Ft. Worden, received low bids, (a) Type No. 1, 6-in. galvanized steel pipe, rein.-con. pipe supports and piers; (b) Type No. 2, 6-in. galvanized steel pipe, pile supports and rock embankment; (c) Type No. 3, 6-in. c.-i. pipe, pile supports and rock embankment from Pearson Construction Co., New York Bldg., Seattle, (a) $7,726, (b) $8,342, (c) $6,860; H. A. Cotton, Port Townsend, Wash., (a) $5,240, (b) $5,750, (c) $3,970. . Noted Nov. 2.

Hawaii, Pearl Harbor—Crane—Bureau of Yards and Docks, Navy Dept., Washington, D. C., received low bids, 50-ton locomotive jib from McMyler-Interstate Co., Bedford, Ohio, $159,385, $155,553; V. R. Browning & Co., Cleveland, Ohio, $94,852. Noted Nov. 2.

CANALS, DITCHES AND IRRIGATION

Proposed Work

Ga., Commerce—Drainage—Grove River Drainage Dist. No. 2 organized to build 7 mi. ditch. J. M. Wood, Commerce, interested.

La., Lake Charles—Canal—Calcasieu Navigation Dist. election Dec. 27 to vote on $260,000 bonds deepening Calcasieu-Sabine Sect. intercoastal canal. C. E. Going, Clooney Construction Co., Lake Charles, interested. Noted Nov. 23.

Ind., Crown Point—Ditch—Lake County Circuit Court to let contract Singleton Ditch to drain 150,000 acres along north bank Kankakee River through Lake County, emptying into Kankakee River above Monence, Ill., in spring. R. Seeley, Crown Point, Audr.

Iowa, Des Moines—Ditch—Polk County receiving bids Dec. 11 Ditch No. 21. About $21,672. Noted Nov. 9.

Iowa, Garner—Drainage—Hancock County plans to spend about $30,000 in Dist. No. 81 and

Canals, Ditches and Irrigation (Continued)

$200,000 in Dist. No. 8. W. S. Bemis, Jr., Garner, Engr.

Iowa, Rockwell City—Drainage—Calhoun County receiving bids Dec. 12 improving Dist. No. 222, 5,100 ft. of 6- to 10-in. tile. R. B. Dixon, Rockwell City, Audr.

Iowa, Sac City—Drainage—Sac County receives bids about Jan. 1 for Drainage Dist. No. 60, about 600,000 cu.yd. dredge or drag line excavation and 3,000-ft. 10- to 16-in. tile. J. H. Mayne, 235 Merriam Bldg., Council Bluffs, Engr.

Minn., Breckenridge—Ditch—Wilkin County sold $6,500 bonds to build Ditch No. 26. P. E. Truax, Breckenridge, County Audr. Noted Oct. 19.

Minn., Breckenridge—Ditch—Wilkin County plans to build Ditch No. 28. Address County Clk., Breckenridge.

Minn., Crookston—Ditch—Polk County receiving bids Jan. 25 Ditch No. 46. About $5,968. H. J. Welte, Crookston, County Audr.

Minn., Elbow Lake—(Official)—Ditch—Grant County receives bids Jan. 3 for Ditch No. 23, about 15 mi. tile drain. H. Dunaway, Elbow Lake, Engr.

Minn., Glencoe—Ditch—McLeod County receiving bids Dec. 22, Judicial Ditch No. 4, McLeod and Renville Counties, about 63,677 ft. 8- to 24-in. tile and 29,154 cu.yd. excavation. F. D. Stocking, Glencoe, County Audr.

Utah, St. George—Irrigation—Dixie Irrigation Co. applied to W. D. Beers, State Engr., for permission to divert 300 2nd ft. water from Rio Virgin River, build concrete dam and channel 26 mi. long and reclaim about 40,000 acres west of Hurricane, Washington County. About $750,000. C. B. Stewart, Salt Lake City, Atty.

Ore., Mt. Vernon—Ditch—Mt. Vernon Ditch Co. soon lets contract 4¾ mi. ditches.

Calif., Chowchilla—Irrigation—Chowchilla Reclamation Dist. will soon submit plans to Bd. Supervs. for irrigation. About $400,000. H. S. Wanzer and G. A. Howell, Dir.

Calif., Madera—Irrigation—Madera Irrigation Dist. making preliminary surveys to divert water from San Joaquin, Fresno and Chowchilla Rivers and tributaries to irrigate 400,000 acres of land in Merced and Madera Counties, including dams and reservoirs. About $4,000,000. F. Clare, Engr. Noted Feb. 24.

Calif., Marysville—Drainage—Reclamation Dist. No. 1600, Yuba County, plans drainage system. W. C. Hoke, Dir.

Calif., Modesto—Irrigation—Modesto—Irrigation Dist. making plans 3 concrete drops in Lateral No. 4. F. C. Herrman, Modesto, Ch. Engr.

Calif., San Dimas—M. N. Hazzard, 217 North Bright St., Whittier, receiving bids Jan. 1 irrigation system to include arched concrete dam 130 ft. high to store 17,000 acre-ft. Puddingstone Canyon, 6,000-ft. tunnel, 4-mi. canal and pipe line for flume. About $750,000. G. W. Sturtevant, 38 South Dearborn St., Chicago, Engr.

Calif., Tracy—Irrigation—West Side Irrigation Dist. receives bids about Dec. 15 for ditches, pumping plant, etc. Bonds for $295,000 voted for work. W. G. Hunter, 611 Commercial and Savings Bldg., Stockton, Engr. Noted Nov. 2.

Alta., Daysland—Reclamation—Dept. Pub. Wks., Edmonton, making plans for reclaiming tract land near Daysland. About $60,000.

Bids In and Contracts Awarded

N. Y., Albany—Barge Canal Work—State Supt. Pub. Wks. let contract Erie Canal, Contract No. 59, to MacARTHUR BROS., 130 Broadway, New York, $1,596,788. Noted Oct. 19.

N. Y., Albany—(Official)—Barge Canal Work—State Supt. Pub. Wks. let contract Erie Canal, Sect. 2, Contract No. 150, to BROWN & LOWE CO., 111 Foster Ave., Schenectady, about $21,780. Noted Nov. 30.

N. Y., New York—(Brooklyn)—Dredging—Bids received dredging at foot of 29th, 30th and 35th St., South Brooklyn, from Coastwise Dredging Co., 17 Battery Pl., Manhattan, 24c. per cu.yd.; P. Sanford Ross, 135 Bay St., Clifton, Richmond, 27.5c.; Morris & Cummings Dredging Co., 17 State St., Manhattan, 48c. Noted Nov. 23.

N. Y., New York—(Brooklyn)—Dredging—Comr. Docks let contract dredging head Mill Basin, Jamaica Bay, Contract No. 1462, to P. SANFORD ROSS, INC., 135 Bay St., Clifton, S. I., $0.113 per cu.yd. Noted Oct. 5.

Ga., Carnesville—Ditch—Franklin County let contract Rose Creek Drainage Ditch to THOMPSON & MOSELEY, Banner Bldg., Greensboro. About $12,184.

Iowa, Algona—Drainage—Kossuth County let contract Drain No. 21 to ELMORE CEMENT TILE CO., Elmore, about $48,548; and GRAETTINGER TILE WORKS, Graettinger, about $36,483.

Iowa, Algona—Drainage—Kossuth County let contract drains Dist. No. 41 to CHRISTIAN & ANDERSON, Titonka, about $7,112.

Minn., Benson—Ditch—Swift County let contract Ditch No. 15 to MINNESOTA CONSTRUCTION CO., Minneapolis, about $7,606. Noted Oct. 19.

Minn., Duluth—Ditch—St. Louis County received low bid Ditch No. 7 from W. C. Sargent, about $26,038. Noted Nov. 16.

Minn., Marshall—Ditch—Lyon County let contract Ditch No. 13 to TRACY CONSTRUCTION CO., Tracy, about $4,200.

Minn., Olivia—Ditch—Renville County let contract Ditch No. 14 to C. SORENSON, Slayton, about $18,250. Noted Oct. 5.

Minn., Olivia—Ditch—Renville County let contract Ditch No. 70 to W. B. BOSWORTH, Ada, about $27,000. Noted Nov. 23.

Minn., St. Paul—Ditch—Ramsey County let contract Ditch No. 14 to J. C. COX, St. Paul, about $15,250. Noted Nov. 16.

Minn., St. Peter—Ditch—County let contract Ditch No. 61 to G. ZERWAS, about $15,250.

N. D., Grand Forks—Ditch—Grand Forks County let contract Ditch No. 9 to HOYAN CONSTRUCTION CO. Noted Aug. 2.

Calif., Eldora—Drainage—Hardin County let contract material for Drainage Dist. No. 95 to ELDORA PIPE AND TILE CO., about $4,267.

Calif., Merced—Drainage—Levingston Dist. No. 1 let contract system to SHATTUCK-EDINGER CO., Richmond, about $32,000.

Calif., Modesto—Ditch—Butler Drainage Dist. let contract excavation to W. J. MILLER, 10c. per cu.yd.; pipe to F. R. WAY, 702 15th St., $1.15 per ft.

MISCELLANEOUS

Proposed Work

Mass., Fall River—Playground—Park Comrs. rejected bids for improving Warren St. Playground. Work to be done by day labor.

R. I., Newport—Sea Wall—City let contract to R. H. BEATTIE, Fall River, about $26,571.

Conn., Greenwich—Swimming Pool—R. A. Cowles, 99 John St., New York, plans. D. M. Ach, 1 Madison Ave., New York, Arch.

Conn., New Haven—Dock—City plans to issue $250,000 bonds to build dock. F. L. Ford, City Engr.

N. Y., Rochester—Dock—River and Harbor Com. adopted ordinance to purchase site dock east side Genesee River. F. T. Elwood, City Engr.

N. Y., Syracuse—Market House—J. Dolt Packing Co. making plans, 2-story, 80x150-ft. About $30,000. J. J. Cuff, 745 William St., Buffalo, Supt. Henschien & McLaren, 37 West Van Buren St., Chicago, Arch. and Engr.

N. Y., Yonkers—Mausoleum—Eastern Mausoleum Co. making plans, 2-story, 40x150-ft., Oakland Cemetery. About $90,000. Conant & Felch, 159 Washington Ave., Arch.

N. J., Atlantic City—Docks, Etc.—City plans docks and shipping terminals on harbor front. J. M. Hackney, City Engr.

N. J., Camden—Shipways—New York Shipbuilding Co. plans 2 shipways, 150x1,000-ft., to be 1st unit of proposed improvements.

N. J., Changewater—Coal Trestle, Etc.—Tide Water Pipe Co. plans rein.-con. coal trestle dump and retaining walls. F. Mellott, P. O. Box 455, Bradford, Arch.

N. J., Trenton Junction—Elimination Grade Crossing—Philadelphia & Reading Ry. plans tunnel to eliminate grade crossing. About $75,000, $10,000 of which will be borne by Trenton & Mercer County Corp., 137 State St., Trenton. S. T. Wagner, Reading Terminal, Philadelphia, Ch. Engr. Ry.

Penn., Chester—Pier and Bulkhead—Chester Shipbuilding Co., Ltd., Philadelphia, let contract to LATTA & ROBERTS, Drexel Bldg., Philadelphia. Noted Sept. 21.

Penn., Coatesville—Fire Station—West End Fire Co. No. 3 let contract to H. W. ULRICH, Strasburg, Lancaster post office. About $10,000. Noted Oct. 12.

Penn., Erie—Flood Protection—Council receiving bids Dec. 19 improving Mill Creek to prevent floods, about 2 mi. rein.-con. tube 18x22-ft., earth excavation, pipe, etc. F. Gannett, Telegraph Bldg., Harrisburg, Consult. Engr. Noted Aug. 10.

Penn., Girard Point—(Philadelphia post office)—Pier—Pennsylvania R.R. let contract improving Pier No. 1 to C. McDERMOTT CO., Commercial Trust Bldg., Philadelphia.

Penn., McKeesport—Elimination Grade Crossings—City, County, Pittsburgh Railways Co. and Pittsburgh & Lake Erie R.R. plan to eliminate grade crossing and enlarge viaduct on West 5th St. J. M. Smith, City Engr. J. A. Atwood, Pittsburgh & Lake Erie Terminal, and F. Uhlenhart, Jr., 435 6th Ave., Pittsburgh, Ch. Engrs. Rys.

Penn., Philadelphia—Park Improvements—City plans, Abbottsford Ave. and Schuyler St. About $5,000. W. B. Champlin, 587 City Hall, Secy. Bd. Recreation.

Penn., Philadelphia—(Official)—Piers—City receiving bids Dec. 21 pier foot Cherry St. G. S. Webster, 550 Bourse Bldg., Dir. Wharves, Docks and Ferries. Noted June 8.

Penn., Philadelphia—Subway—Dept. Transit, City Hall, making plans 2 sections Broad St. subway. C. E. Albright, City Engr.

Penn., Stroudsburg—Dam—Stroudsburg Passenger Railway Co. plans to rebuild dam over Pocono Creek. E. F. Smith, Main and Chestnut St., Secy. and Gen. Mgr.

Md., Cumberland—Subway—Baltimore & Ohio Railroad Co. let contract, Green St., to VANG CONSTRUCTION CO. About $40,000. Noted Sept. 7.

Ga., Savannah—Elimination Grade Crossings—Atlantic Coast Line R.R. and city plan to eliminate crossings. J. E. Willoughby, Wilmington, N. C., Ch. Engr. E. R. Conant, City Engr.

Tenn., Knoxville—Stadium and Grandstand—University of Tennessee plans. About $25,000 or $35,000.

Ohio, Canton—Track Elevation—Pennsylvania Lines West of Pittsburgh made plans track elevation from Buckhill to property United Furnace Co. About $3,000,000. T. Rodd, Pennsylvania Station, Pittsburgh, Ch. Engr.

Ohio, Columbus — Coliseum — Citizens plan. Legislature will be asked to contribute to project.

Ohio, Columbus—Retaining Wall—City let contract, 5th Ave. and Cleveland, Cincinnati, Chicago & St. Louis Ry. to FRITZ-RUMER-COOKE-GRANT CO., Ohio Electric Bldg.

Ohio, Hamilton—(Official)—Fire Station—Citizens defeated $12,000 bonds to build fire station. Noted Nov. 23.

Ohio, Newark—Elimination Grade Crossings—Comrs. Essex County petitioned by citizens of Newark and Newton Township to eliminate 4 crossings between Newark and Utica along Lake Erie Div. of Baltimore & Ohio Railroad Co. C. H. Wells, City Engr.

Ind., Evansville—(Official)—Market House—Bd Pub. Wks. receiving bids Dec. 12, Little Market Sq., 1st Ave. and Pennsylvania St. J. D. Saunders, City Engr. C. Shopwell & Co., 707 Furniture Exchange Bldg., Arch. Noted Sept. 21.

Ind., Ft. Wayne—Tunnel—General Electric Co. let contract to INDIANA ENGINEERING AND CONSTRUCTION CO., Lincoln Life Bldg., Ft. Wayne.

Mich., Grand Rapids—Grade Separation—City approved plans for grade separation of Grand Trunk Ry. at Alpine Ave., N. W. About $22,000, half of which will be borne by railroad. W. S. Moore, City Engr. Noted June 1.

Wis., Madison—Lion House—Bd. Park Comrs. plans, Madison Zoo. About $15,000.

Iowa, Avon—Elimination Grade Crossings—Chicago, Rock Island & Pacific Ry. submitted plans to Bd. Superv., Des Moines, proposed viaduct to eliminate grade crossing Des Moines-Carlisle Rd. C. A. Morse, La Salle St. Sta., Chicago, Ch. Engr.

Iowa, Clinton—Subway—Chicago & Northwestern Ry. plans, 2nd and 4th St., also freight and passenger stations. W. H. Finley, Jackson Blvd. and Franklin St., Ch. Engr.

Minn., St. Paul—Shelter Houses—City making plans, Como, Mounds and Cherokee Heights Parks. C. A. Hausler, City Arch. O. Claussen, City Engr.

Mont., Dillon—Coal Chutes—Oregon Short Line R.R. to rebuild coal chutes destroyed by fire. About $10,000. C. Stradley, Salt Lake City, Ch. Engr.

Mo., St. Louis—Tank—Zoological Society plans elliptical tank for sea lions, Zoological Gardens, 50x100-ft., rein.-con. T. P. Barnett Co., Central Bank Bldg., Arch.

Ark., Little Rock—Mausoleum—Southwestern Mausoleum Co., Siloam Springs, plans.

Tex., Anahuac—Bulkhead—City making plans to rebuild bulkhead across Turtle Bay.

Tex., Brownwood—Fire Station—City making plans. W. A. Storey, City Clk.

Tex., Dallas—Fire Station—City making plans in Oak Cliff. About $10,000. J. O. Gill, Arch.

Tex., Wichita Falls—Park Improvements—City voted $7,500 bonds to improve parks. L. C. Hinckley, City Engr. Noted Oct. 26.

Okla., Healdton—Pipe Line—Pierce Oil Corp., 320 Olive St., St. Louis, plans, 100 mi. 8-in. from Healdton to Ft. Worth. About $1,000,000.

Colo., Denver—Subway—J. B. Hunter, City Engr., estimates cost subway at 38th St. at from $221,000 to $474,670.

Wash., Seattle—Market—Frye Packing Co. let contract, east side 1st Ave., to M. SCHUCHLE, 9316 7th Ave., South Seattle. About $40,000. Noted Nov. 2.

Calif., Alameda—Bulkhead and Filling—Southern Pacific Co. appropriated $175,000. W. Hood, Flood Bldg., San Francisco, Ch. Engr.

Calif., San Pedro—Drydock and Shipyard—City plans election to vote on $1,000,000 bonds to build drydock and shipyard, Los Angeles Harbor. F. T. Woodman, Mayor.

Calif., Wilmington—Wharf, Etc.—City plans wharf about 1,200 ft. long, Los Angeles Harbor; also dredging channel to depth 30 ft.

Ont., Port Dover—Harbor Improvements—A. Lamp, Engr. Dept. Pub. Wks., Windsor, to make plans for improving docks at harbor. About $75,000. Noted Feb. 24.

B. C., North Vancouver—Docks—Canadian Robert Dollar Co. plans, 800-ft. About $200,000.

Bids In and Contracts Awarded

R. I., Providence—Seawall—Bd. Contract and Supply received low bid excavating and filling from J. Marsh, Providence, 23½c. per cu.yd.

Miscellaneous (Continued)

N. Y., New York—(Brooklyn)—(Official)—Elevated Railway—Low bidders connecting link between New Utrecht Ave. (West End Line) and Culver Rapid Transit R.R., Sect. 1-A, Route 49, were: T. Dwyer, Broadway and 216th St., $42,268; Post & McCord, 101 Park Ave., $43,987; A. L. Guidone & Son, Inc., 52 Vanderbilt Ave., $44,853, all Manhattan. Noted Nov. 23.

N. Y., New York—(Manhattan)—Station Finish—Low bidders station finish for 9 stations of Seventh Ave.-Lexington Ave. Rapid Transit R.R. were: Seventh Ave. Contracting Co., Inc., 335 West 16th St., $399,000; D. C. Serber, 1123 Broadway, $410,000; T. Dwyer, Broadway and 216th St., $413,000. These are unofficial totals. Noted Nov. 23.

Penn., Philadelphia—Park Improvements—E. H. Vare, Lincoln Bldg., only bidder improving eastern portion League Island Park. About $500,000.

Penn., Philadelphia—Trestle, etc.—Pennsylvania R.R. let contract coal trestle and crane building, Delaware and Washington Ave., to BRANN & STUART CO., Commercial Trade Bldg., about $25,000.

La., New Orleans—Levee—Sarpy St. Charles Parish let contract 180,000 cu.yd. earthwork to GRASSE CONTRACTING CO., Hennen Bldg., 15.80c. per cu.yd.

Mo., Kansas City—Pavilion—Park Bd. received low bid, Swope Park, from N. Miller, 3112 Highland Ave., $16,664. Noted Sept. 21.

Tex., Dallas—Levee—Dallas County Levee Impvt. Dist. No. 1 let contract 5 mi. 10-ft. and 5 mi. 10-ft. and 5 mi. 5-ft. levee on west bank Trinity River to W. C. CALLAHAN CONSTRUCTION CO., Omaha, Neb. Bonds for $48,000 voted for work. Noted Oct. 26.

Tex., Galveston—Bulkhead—City let contract along crest seawall improvement fill between 16th and 17th St. to BLODGETT CONSTRUCTION CO., Galveston, about $6,002. Noted Nov. 16.

Calif., Newport Beach—Tide Gate—City let contract, Bolsa Chica Gun Club, to MERCEREAU BRIDGE AND CONSTRUCTION CO., Pacific Electric Bldg., Los Angeles, about $10,000

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Mass., Farmington—Church—Methodist Episcopal Congregation making plans. About $40,000. W. H. Taylor, 50 Bromfield St., Boston, Arch.

Mass., South Hadley—Dormitory—Mt. Holyoke College making plans. About $150,000. Brainerd & Leeds, 89 Franklin St., Boston, Arch.

Mass., Worcester—Y. M. C. A. making plans for building. L. E. Jallade, 37 Liberty St., New York, Arch. F. L. Miller, Gen. Secy.

Conn., Danbury—High and Grade School—City made plans. P. N. Sunderland, 81 West St., Arch.

Conn., Hartford—Clubhouse—Shuttle Meadow Club plans, 2-story. About $50,000.

Conn., Hartford—Y. M. C. A. revising plans 5-story building. About $215,000. L. E. Jallade, 37 Liberty St., New York, Arch. Noted Sept. 21.

Conn., Waterbury—High School—Bd. Education receiving bids Dec. 20. Freney & Jackson, 51 Leavenworth St., Arch.

N. Y., Clifton Springs—Sanitorium—Clifton Springs Sanitorium making plans, 3-story. Pierce & Bickford, 118 Lake St., Elmira, Arch.

N. Y., Garden City—Clubhouse—Garden City Country Club, plans, 2½-story, 80x140-ft. About $45,000. M. Smith, Bank Bldg., Far Rockaway, Arch.

N. Y., Newburgh—Hotel—J. S. Shattuck, 80 North Pearl St., making plans. About $350,000. A. R. Murphy, Prop. Kenmore Hotel, Albany, interested.

N. Y., New York—(Brooklyn)—(Official)—Riding Academy—A. Vogt, Dean St. and Franklin Ave., receiving bids, 2-story, 167x168-ft., brick, at Malbone St. and Franklin Ave. About $50,000. I. A. Crawford, Arch.

N. Y., New York—(Brooklyn)—Arlington Ave. Presbyterian Church plans Sunday school building. About $40,000.

N. Y., New York—(Queens)—(Official)—Clubhouse, Office and Store—New York Municipal Railway Corporation, 85 Clinton St., Brooklyn, plans, at Jamaica Ave. and Puntine St., Jamaica. About $60,000.

N. Y., New York—(Manhattan)—Hospital—Bd. Trustees Bellevue Hospital receiving bids Dec. 12, additions. J. W. Brannan, Pres. Noted Nov. 2.

N. Y., New York—(Richmond)—Hospital—Dept. Pub. Charities, Municipal Bldg., Manhattan, receiving bids Dec. 15, additions to Sea View Hospital at Sea View, S. I. J. A. Kinsbury, Comr. Noted June 15.

N. Y., Syracuse—School—City making plans, 2-story. About $80,000. Russell & King, 602 Snow Bldg., Arch.

N. Y., Watertown—Office—New York Air Brake Co., 165 Broadway, New York, making plans 3-story. S. M. Green Co, 293 Bridge St., Springfield, Mass., Engr. and Arch.

N. Y., Watervliet—Orphan's Home—St. Coleman's Home made preliminary plans, 3-story. About $50,000. M. L. and H. G. Emery, 42 North Pearl St., Albany, Arch.

N. J., Camden—School—City receiving bids Dec. 15 for sale of $200,000 bonds. G. A. Frey, City Treas.

N. J., Jersey City—Theater—C H. Ziegler, 75 Montgomery St., made plans 2-story, brick and granite. About $40,000. Mrs. O. Wetter, 266 Pearsall Ave., interested.

N. J., Newark—School—State Bd. Education voted to ask Legislature to authorize appropriation for State Normal School.

N. J., New Brunswick—Freight Station—Pennsylvania R.R. plans; also addition to freight terminal About $90,000. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

N. J., Passaic—Rafner Bros. purchased site at Main Ave., plans 4-story building. About $75,000.

N. J., Passaic—High School—Bd. Education plans, on 2nd Ward Park Grounds. About $200,000.

N. J., Plainfield—Y. M. C. A. plans building. About $200,000.

N. J., Princeton—Laboratory—Princeton University making plans, 3-story. Day & Klauder, 925 Chestnut St., Philadelphia, Arch.

N. J., Princeton—Art Building—Bd Trustees, Princeton University, plans addition. About $250,000.

N. J., Ridgefield Park—High School—Bd. Education plans, 3-story, 63x125-ft. About $90,000. E. Sibley, Palisades Park, Arch.

N. J., Trenton—School—State Bd. Education plans Normal School in South Jersey. About $250,000.

Penn., Aspinwall—High School—Bd. Education receiving bids Dec. 15, 2-story, 75x160-ft. About $75,000. P. C. Dowler, Arrott Bldg, Arch Noted Nov. 30.

Penn., Bryn Mawr—Hospital—Bryn Mawr Hospital made plans, 3-story, 30x56-ft. Furness, Evans & Co., Franklin Bank Bldg., Philadelphia, Arch.

Penn., Farrell—Church—St. Ann's Congregation receiving bids Dec. 19 for 1-story, 56x100-ft. About $50,000. J. B. Verbeck, Theater Bldg, Oil City, Arch.

Penn., Ft. Washington—Assembly Hall and School—Upper Dublin Township plans 1- and 2-story. About $40,000 C. E. Schermerhorn and W. K. Philips, 430 Walnut St., Arch.

Penn., Harrisburg—High School—City voted $1,250,000 bonds.

Penn., McKees Rock—School—Bd. Education voted $150,000 bonds. Noted Oct. 26.

Penn., Reinerton—School—School Bd. receiving bids Dec. 4 for 2-story, brick vocational school. Hauer & Mowers, Lebanon, Arch. Noted Nov. 2.

Penn., Sharon—Sharon Lodge of Elks making plans for 4-story building. About $50,000. E. J. Weaver, McDowell Bldg. Arch Noted Nov. 23.

Penn., Swarthmore — Dormitory — Swarthmore College making plans, 3-story. About $50,000. Karcher & Smith, 34 South 17th St., Philadelphia, Arch. Noted July 20.

Penn., York—Bank—First National Bank plans. About $100,000. Gemmill & Billmeyer, Rosenmiller Bldg, Arch.

Md., Baltimore—University School for Boys, Bellona and Gittings Ave., making plans, 3 buildings. About $75,000. T. G. Machen and T. B. Owings, Arch. Noted Nov. 23

Md., Baltimore—Dormitory—Johns Hopkins University making plans. About $120,000.

Md., College Park—Maryland Agricultural College making plans 3-story, 58x200-ft. Agricultural building. About $165,000. Flourney & Flourney, McLena Bldg., Arch.

Md., Frostburg—Dormitories—Frostburg Normal School making plans for 3-story. C M. Anderson, 324 North Charles St., Arch. Noted Sept. 21.

Md., Havre de Grace—Hotel—Susquehanna Inn making plans for 3-story, 100x175-ft. About $100,000. T. W. Pietsch, 101 American Bldg., Arch.

Va., Bristol—College—Trustees Sullins College plan, 3-story. C. B. Kearfott, Galloway Bldg., Arch.

Va., Richmond—Atlantic Coast Line Ry. plans to improve freight terminals. About $500,000. J. E. Willoughby, Wilmington, N. C., Ch. Engr.

Va., Wytheville—School—Virginia Baptist General Assoc. plans for boys. About $100,000.

W. Va., Charleston—High School—Bd. Education made plans, 2-story, on Lincoln School Grounds. About $70,000. F. L. Packard, Hayden Bldg., Columbus, Ohio, Arch. Noted Nov. 9.

W. Va., Wheeling—Theater—J. Velas, T. Kokenes, Wheeling, and S. Gallas, East Liverpool, Ohio, plans 67x136-ft., at Market and 16th St. About $100,000.

N. C., Winston-Salem—Elks Home and Auditorium Co. plans theater and store building on 5th St. About $150,000.

N. C., Woodland—School—School Bd. making plans, 2-story, 62x72-ft. W. N. Diehl, Chamberlaine Bldg, Norfolk, Va., Arch.

S. C., Columbia—Parish School and Public Hall—St. Peters Church plans, 2-story, brick. T. J. Hegarty, Pastor.

S. C., Greenville—High School—School Trustees making plans About $65,000. P. T. Hayne Chn. Noted Feb 10.

S. C., Newberry—Exchange Bank plans 3-story bank and office building.

S. C., Winnsboro—Jail—County defeated $50,000 bonds to build jail. Noted Mar. 23.

Ga., Atlanta—Theater—C. W. McClure plans at 15 Houston St

Ga., Macon—Hotel—Shangler & Cummings making plans, 75x125-ft P. E. Dannis, Macon, Arch

Fla., Key West—Hotel—Florida-East Coast Co. plans About $250,000.

Fla., Ocala—School—State Bd. Comrs. making preliminary plans, Girls Industrial School.

Ala., Leighton—School—Bd. Education receiving bids Dec. 15 Knight & Quale, Chattanooga, Tenn., Engr.

La., Baton Rouge—Schools—Baton Rouge School Dist. voted $125,000 bonds for 3 schools.

La., Shreveport—Bank and Office—Merchants Building Co., recently incorporated with $300,000 capital stock, plans, 10-story.

Ky., Louisville—Sanitorium—General Association of Baptists plans. About $250,000.

Ohio, Cincinnati—Hotel—H Hake & C. Kuck, Arch., Telephone Bldg., making preliminary plans for Schuler Hotel. About $300,000.

Ohio, Cincinnati—School—Bd. Education receiving bids Dec. 11 for 1- and 2-story. About $50,000 Bausmith & Drainie, 901 Gerke Bldg., Arch.

Ohio, Cleveland—Bank and Office—Lorain St Bank Co. soon to let contract, at Lorain and Fulton St. About $100,000. W. J. Carter, Illuminating Bldg., Arch.

Ohio, Cleveland—Church—Immanuel Baptist Congregation, Superior Ave. and Parkwood Dr., made plans, at Saywell and East 123rd St. About $50,000. Fulton & Butler, Uniontown, Penn., Arch.

Ohio, Cleveland—Schools—Bd. Education plans 3-story. About $350,000. W. R. McCormick, Arch.

Ohio, Cleveland—School—City voted $75,000 bonds for addition to Corlett School. W. R. McCormack, Arch. Noted Oct. 5.

Ohio, Dayton—Church—Grace Methodist Episcopal Congregation plans. About $150,000 Scheneck & Williams, 591 Arcade Bldg., Arch.

Ohio, Dayton—Bank and Office—Dayton Savings and Trust Co. soon receives bids, 10-story, 50x178-ft. About $250,000. Schenck & Williams, Arcade Bldg, Dayton, Arch.

Ohio, Galion—Grade and High School—Bd. Education voted $150,000 bonds, 2-story. Howard & Merriam, 8 East Broad St., Columbus, Arch. Noted July 20.

Ohio, Lancaster—High School—Bd. Education voted $90,000 bonds. D. Riebel & Sons, 906 New First National Bank Bldg., Columbus, Arch.

Ohio, Lebanon—High School—Village School Dist. making plans. About $60,000. Bausmith & Drainie, Gerke Bldg, Cincinnati, Arch. Noted Nov 2.

Ohio, Lewistown—School—City plans. Rush & Sheets, 145 North High St., Columbus, Arch.

Ohio, Lima—High School—School Bd. approved plans Bids soon About $400,000. McLaughlin & Hulsken, 610 Savings Bldg., Arch. Noted Oct 26.

Ohio, Lima—(Official)—City receiving bids Jan. 15 for South Side Technical High School. About $75,000. Noted Nov. 16.

Ohio, Lorain—Hotel—C. Farrell plans, 5-story, on Broadway and Erie Ave.

Ohio, Massillon—Nurses' Home—Massillon City Hospital making plans, 2-story. About $50,000 E Harrman, Central Savings Bank Bldg., Canton, Arch

Ohio, Newark—Church—Fifth Ave. Baptist Congregation receiving bids Dec. 12, 1-story. About $65,000 E E Pruitt, Hartman Bldg., Columbus, Arch. Noted Aug. 24.

Ohio, Oberlin—Women's Building—Oberlin College making plans. About $75,000.

Ohio, Portsmouth—School—Bd Education receiving bids Dec 22. About $60,000 Ritter & Bates, 46 First National Bank Bldg., Portsmouth, Arch. Noted Oct. 5.

Ohio, Rocky River—School—Bd. Education making preliminary plans, brick. About $60,000. N. H. Nicklas, 1900 Euclid Ave., Cleveland, Arch. Noted Nov. 16.

Ohio, Sandusky—Hotel—West House making preliminary plans, 5-story. About $500,000. H. C. Millott, Bliss Bldg, Arch.

Ohio, Toledo—Hotel—Waldorf Realty Co. increased capital from $100,000 to $900,000, plans addition, at Summit St. and Madison Ave.

Buildings (Continued)

Ohio, Toledo—Council passed ordinance for $100,000 bonds for building workhouse.

Ohio, Troy—(Official)—High School—Miami County plans, centralized school, Bethel Township. About $100,000. Schenk & Walker, 20 Robert Blvd., Dayton, Arch.

Ind., Columbia City—School—Whitley County, Washington Township, receiving bids Dec. 20. D. V. White, Trustee.

Ind., Ft. Wayne—Parochial School—St. Patrick's Church making plans 2-story, 75x150-ft. Mahurin & Mahurin, 124 West Jefferson St., Arch.

Ind., Indianapolis—Church—First United Brethren Congregation plans, at Park Ave. and St. Clair St. About $40,000. Rev. D. J. Good, Pastor.

Ind., Indianapolis—Y. W. C. A. plans new building. About $200,000. Mrs. M. A. Potter interested.

Ind., Lafayette—Theater—J. and S. Loeb, plan, 6-story, at 6th and Main St. About $150,000.

Ind., Pennville—Church—Methodist Congregation receiving bids Dec. 15. M. B. McCarty, Secy. Bd. Trustees.

Mich., Battle Creek—Hotel—Lindsay Estate making plans for 4-story, 31x67-ft. About $50,000. H. J. Puffer, Post Bldg., Arch.

Mich., Benton Harbor—Church—First Congregational made plans. About $100,000. Elwood & Elwood, Elkhart, Arch.

Mich., Detroit—Library—City soon to receive bids. Adam Stromh, Corres. Secy. of Detroit Library Bd.

Mich., Flint—School—Bd. Education plans, 2-story, on Ave. A, between Newall and Hamilton. About $101,000.

Mich., Ironwood—School—Bd. Education making plans, 3-story, 85x146-ft. About $90,000. C. J. Anderson & Co., 301 Wilner Bldg., Green Bay, Arch.

Mich., Marquette—Jail—Marquette County defeated $50,000 bonds. Noted May 25.

Mich., Springwells—School—School Dist. receiving bids Dec. 11. A. W. Holmes, Treas.

Mich., Walkerville—(Official)—High School—School Bd. does not plan, as noted in issue of Nov. 16.

Ill., Chicago—Central Manufacturing District plans freight terminal station, 39th St. between Ashland and Western Ave.

Ill., Chicago—Hotel—Drake Hotel Co. making plans, Lake Shore Dr. and Lincoln Blvd. About $5,000,000. Marshall & Fox, 38 South Dearborn St., Arch.

Ill., Chicago—Hotel—J. P. Friend made plans for 12-story, 148x164-ft., on Surf and Pine Grove St. About $800,000. H. R. Wilson & Co, 104 South Michigan Ave., Arch.

Ill., Chicago—Clubhouse—Nineteenth Century Club, plans at Ontario St. and North Grove Ave. About $60,000.

Ill., Maywood—Masonic Temple—Maywood Lodge, No. 869, making plans for 3-story, 50x100-ft. About $40,000. E. E. Roberts, 105 North Clark St., Arch.

Ill., Quincy—School—Bd. Education, Quincy School Dist. No. 172, Adams County, receiving bids Dec. 18, Dewey School. Noted Nov. 30.

Wis., Ashland—Hotel—Ashland Brewing Co. remodeling building, 3-story, 50x75-ft. H. Wildhagen, 513 West 2nd St., Ashland, Arch.

Wis., Hurley—School—Bd. Education receiving bids in February, 3-story. About $50,000. C. J. Anderson & Co., 301 Wilner Bldg., Green Bay, Arch. Noted Nov. 30.

Wis., Madison—Church—Lutheran Memorial Congregation plans. About $75,000.

Wis., Manitowac—School—City voted $50,000 bonds. J. Kelly, Clk.

Wis., Milwaukee—Office—P. Gross Hardware Co. plans, 10-story, 80x120-ft., at Grand Ave. A. E. Gross, Vice-Pres.

Wis., Waukesha—School—City making plans. About $250,000. Van Ryn & DeGelleke, Caswell Bldg., Milwaukee. Noted Oct. 5.

Iowa, Auburn—High School—City votes Dec. 11 on $50,000 bonds to build high school.

Iowa, Carroll—High School—Independent School Dist. receiving bids Dec. 15, 2-story, 88x140-ft. About $80,000. C. A. Dieman, Grenby Bldg., Cedar Rapids, Arch. Noted Sept. 28.

Iowa, Cedar Rapids—(Official)—A. N. Palmer, 300 Irving Pl., New York, does not plan rein.-con., 4-story, 120x140-ft. business building at Cedar Rapids, as noted in Nov. 16 issue.

Iowa, Centerville — (Official) — High School — City receiving bids Dec. 12 to vote on $150,000 bonds. Noted Nov. 16.

Iowa, Des Moines—Consistory Cathedral—Scottish Rite made plans, contract soon to be let, 5-story, stone exterior. About $325,000. K. K. Keffer, 610 Youngerman Bl., Arch. Noted Nov. 30.

Iowa, Oskaloosa—High School—City votes Dec. 28 on $120,000 bonds to build high school. Noted May 11.

Iowa, Sergeant Bluff—School—Bd. Education soon to let contract for brick and stone. About $75,000. W. L. Steele, Sioux City, Arch. W. L. Belfiage, Pres. School Bd. Noted Sept. [illegible]

Minn., Cloquet—High School—Bd. Education made plans, 3-story, 100x130-ft. Bids in February. About $70,000. Noted Nov. 16.

Minn., Duluth—Clubhouse—Knights of Pythias, North State Lodge, plans. About $50,000.

Minn., Hendricks—High and Grade School—City receiving bids Dec. 16. A. L. Swenson, Clk. of School Bd.

Minn., Mankato—Hotel, Store and Office—McMichael Investment Co., 354 Plymouth Bldg., making plans, 7-story. About $250,000. C. T. McElroy, 416 Essex Bldg., Minneapolis, Arch.

Minn., Thief River Falls—School—Bd. Education plans, 10-story. About $30,000.

Minn., Wacomia—High School—School Dist. No. 44, Carver County, receiving bids Dec. 10. P. J. Nimmer, School Clk. Noted Nov. 23.

Minn., White Bear—Hotel—Proposed on White Bear Lake, between Shary Lane and Johnson Ave. About $60,000. J. W. Ryckman, 114 East Endicott Arcade, St. Paul, interested.

Minn., Winona — Dormitory — State Normal School Bd., St. Paul, making plans women's dormitory at Local State Normal School.

Kan., Abilene—High School—City making plans, 2-story, 98x150-ft., brick and stone. About $90,000. W. H. Sayler, Gumbel Bldg., Kansas City, Mo., Arch. Noted Oct. 26.

Kan., Atchison—Convention Hall—City plans election to vote on $100,000.

Kan., Clyde—School—Bd. Education voted $40,000 bonds for building school. Noted Nov. 9.

Kan., Hoisington—Hotel and Theater—B Baker soon to let contract for 2-story, 75x150-ft. About $40,000. W. E. Hulse & Co., Hutchinson. Noted June 1.

Kan., Marysville—Hospital—Marshall County defeated $40,000 bonds. Address County Clk., Marysville. Noted Oct. 26.

Kan., Salina—Mary Mound Girls' College receiving bids Mar. 1 for buildings. About $200,000. C. A. Smith, Arch.

Kan., Sedan—Court House—Chautauqua County making plans, 2-story. About $50,000. G P. Washington & Son, Ottawa, Arch. Noted Oct. 26.

Kan., Smith Center—Court House—Smith County voted $80,000 bonds. Address County Clk., Smith Center. Noted Oct. 26.

Kan., Topeka—Home—Knights and Ladies of Security making plans for aged, orphans and invalids. J. M. Kirkpatrick, Pres.

Kan., Wichita—School—Bd. Education receiving bids Feb. 1. About $75,000. L. Schmi ', 120 North Market St., Arch. Noted Nov. 23.

Neb., Fremont—Courthouse—Dodge County receiving bids Dec. 10, 3-story, 74x120-ft. About $100,000. A. H. Dyer & Co., Fremont, Arch.

Neb., Fremont—Auditorium—City plans. G. A. Murrell, Mayor.

Neb., Hastings—Hospital—Sisters of Mercy plan. About $100,000.

Neb., Omaha—Office—Nebraska Telephone Co. plans, 15-story.

Neb., Omaha—Hotel—H. A. Wolfe, 514 Ware Bldg, making plans for 10-story, 66x122-ft. About $400,000. J. & A. McDonald, 905 Omaha National Bank Bldg., Arch.

Neb., Plattsmouth—School—Bd. Education made plans for 2-story, 64x120-ft. About $65,000. Berlinghoff & Davis, Security Mutual Life Bldg., Lincoln, Arch. Noted Nov. 2.

S. D., McIntosh—Courthouse—City defeated bonds.

S. D., Sioux Falls—School—Lutheran Normal School making plans, 2-story, 42x117-ft. N. O. Monesrud, Dakota Trust and Savings Co., Chmn. Noted Sept. 14.

Mont., Anaconda—High School—City plans; also additions. About $270,000.

Mont., Butte—Hotel—H. M. Baker plans.

Mont., Butte—Hospital—F. Hamill, Arch., Butte, making plans, Deaconess Hospital.

Mont., Lewiston—Hotel—H. B. Farrell approved plans, 6-story. About $350,000. Noted Nov. 30.

Mo., Cameron—Missouri Wesleyan College receives bids about Jan. 1 to rebuild Liberal Arts Bldg, destroyed by fire with loss of $65,000. M. S. Martin, Arch. Noted Nov. 23.

Mo., Columbus—Church—Methodist Episcopal Congregation plans About $150,000. Rev. C. C. Grimes, Pastor.

Mo., Columbia—Clubhouse—University of Missouri plans. About $250,000. H. Kinyon, Alumni Secy.

Mo., Joplin—Office—J. Ferguson soon lets contract, 3-story, 75x100-ft. About $150,000. E. P. Madorie, 832 Reserve Bank Bldg., Kansas City, Arch. Noted Nov. 23.

Mo., Joplin—City Hall—City plans voting bonds.

Mo., Kansas City—J. Flanagan interested in construction of 17-story building at 117-23 West 12th St.

Mo., Mexico — Chapel — Westminster College plans. About $75,000. A. Reed, Pres.

Mo., St. Louis—Y. M. C. A. receiving bids in February, 4-story, 100x160-ft. building. About $200,000. W. Wedemeyer, 825 Wainwright Bldg., Arch.

Tex., Austin—State soon to let contract for 4-story land office building. About $300,000. A. B. Ayers, Arch. Noted Nov. 16.

Tex., Austin—University Presbyterian Church plans building. About $60,000. S. G. Gabriel, interested.

Tex., Beaumont—C. W. Howth making plans rein.-con. business building. About $50,000.

Tex., Beaumont—School—City receiving bids Dec. 19, Junker School. Sanguinet, Staats & Gottlieb, Houston, Arch.

Tex., Beaumont—McBride & Law plan terminal building adjoining wharf at Peal and Austin St. About $50,600 or $60,000.

Tex., Brady—Lodge—F. and A. M. plans 3-story, rein.-con.

Tex., Dallas—Bank and Office—Merchants' Building Co., recently organized, plans, 10-story, at Market and Milam St.

Tex., Dallas—Cobb & Crofford Co. plans 4-story apartment hotel. About $70,000.

Tex., El Paso—Cathedral—Ancient, F. & A. Scottish Rite Masons making plans, 2-story, concrete, brick and terra cotta. About $180,000. Greene & Greene, Dallas, Arch.

Tex., Ft. Worth—Sanitarium—Johnson & Beall, Lamar and 6th St, plans, 3-story. About $65,000.

Tex., San Antonio—Hotel—St. Louis Syndicate plans. About $560,000. J. F. Walker, Arch.

Okla., Ardmore—Office—B. A Simpson made plans, 6-story. Contract soon to be let.

Okla., Tulsa—School—City to vote in January on $460,000 bonds.

Okla., Tulsa—Science Building—Kendall College making plans for 3-story, 40x75-ft. About $40,000. Schumacher & Atkinson, 520 Mayo Bldg, Arch.

Colo., Colorado Springs—Bank—First National Bank plans at Pikes Peak and Tejon St. About $400,000. J. A. Hayes, Pres.

Colo., Denver—Auto Equipment plans building on Broadway, between 12th and 13th St.

Idaho, Idaho Falls—Courthouse and Jail—County defeated $100,000 bonds to build courthouse and jail. Noted Oct. 26.

Idaho, Sandpoint—High School—City plans. About $90,000.

Idaho, Twin Falls—(Official)—City defeated $40,000 bonds to construct building. Noted Nov. 2.

Wash., Chehalis—Hotel—C. E. Troutman, Arch., Electric Bldg., receiving bids Feb. 1, 4-story, 112x180-ft. About $60,000.

Wash., Spokane—Lodge—B. P. O. E. of Spokane plans. About $250,000.

Ore., Bend—Hospital and Convent—Sisters of Charity of Nazareth making plans. About $75,000. Beezer Bros., Northern Bank Bldg., Seattle, Arch. Noted Nov. 16.

Calif., Berkeley—Theater—Williamson & Bradshaw made plans, 2-story, on University Ave. About $50,000. J. W. Plachek, Acheson Bldg., Arch. Noted Nov. 9.

Calif., Berkeley—Student Building—University of California made plans for 4-story Student Union Building. About $200,000.

Calif., Chico—Chico Normal School made plans for 2-story concrete building or for 2 1-story buildings; about $46,000 and $36,000 respectively.

Calif., Los Angeles—W. J. Dodd and W. Richards, Arch., Brockman Bldg., Los Angeles, making plans for department store, at 7th and Olive St.

Calif., Los Angeles—New York Cloak and Suit House purchased site on Grand Ave. and plans 10-story, rein.-con., brick and terra cota building. W. J. Dood and W. Richards, Brockman Bldg, Arch.

Calif., San Bernardino—Pasenger Station—Topeka & Santa Fe R.R. making plans. About $500,000. C. F. W. Felt, Chicago, Ill., Ch. Engr.

Calif., San Francisco—Home—Hebrew Orphanage plans. About $350,000. H. Fleishhacker, Chn.

Calif., Santa Barbara—Church—First Presbyterian Congregation made plans, 3-story, 80x150-ft. About $80,000. R. E. Sauter, San Marcos Bldg., Arch.

Calif., Visalia—Jail—Bd. Superv. Tulare County, receiving bids Dec. 18. E. Mathewson, Fresno, Arch. Noted Aug. 3.

N. S., Sydney—Church—Roman Catholic Congregation plans. About $60,000. R. McInnes, Whitney Pier, Sydney, Pastor.

Que., Montreal—School—School Comn. plans, on Notre Dame St. C. A. Reeves, 83 Craig St., W., Arch.

Que., St. Hyacinthe—Church—Roman Catholic Congregation making plans. About $150,000. McDuff & Lemieux, 320 University St., Montreal, Arch.

Ont., Toronto—Store—T. Eaton Co., Department Stores, making plans. About $15,000,000.

Bids In and Contracts Awarded

Maine, Islesboro—Hotel—Islesboro Inn Co. let contract 3-story, 45x200-ft. to G. H. WILBUR & SON, 31 Exchange St., Bangor. About $90,000. Noted Nov. 23.

Mass., Boston—Gymnasium—Boston School of Physical Education let contract 3-story, to GASCOIGNE & GODDARD, 19 Milk St., Boston.

Mass., Lynn—School—Greek Church Society let contract, South Common St., to SWAIN CONSTRUCTION CO., 67 State St., Lynn.

Mass., Somerville—Church—First Universalist Congregation let contract, 30x120-ft., brick, to J. M. HARTWELL, 46 Cornhill Ave., Boston. About $40,000. Noted Oct. 26.

Buildings (Continued)

R. I., Providence—Bank—Rhode Island Hospital Trust Co. let contract 11-story, to G. A. FULLER CONSTRUCTION CO., 111 Broadway, New York.

Conn., Hartford—Travelers Insurance Co. let contract, 11-story addition to building to MARC EIDLITZ & SON, 30 East 42nd St., New York.

N. Y., Elmira—Dormitory—Elmira College let contract 3-story, 40x142-ft., to LOWMAN CONSTRUCTION CO., 201 Lake St. About $60,000. Noted Nov. 9.

N. J., Long Branch—Hotel—I. Miller, 22 East Broadway, New York, let contract 3-story, 38x160-ft. to B. WOLFSON, 35 2nd Ave., $50,000.

N. J., Lyndhurst—High School—Bd. Education let contract 3-story, 63x102-ft., to EYRICH & WARD, Grantwood. About $60,000. Noted Aug. 24.

N. J., Newark—Police Station—City let contract to ESSEX CONSTRUCTION CO., 85 Academy St., $112,600. Noted Nov. 2.

N. J., Newark—(Official)—Passenger Station—Central R.R. of New Jersey let contract, at 832-6 Broad St., to F. D. HYDE, 90 West St., New York. Noted Nov. 30.

N. J., Passaic—Clubhouse—Polish People's Home let contract 2-story, to J. TAUBER, 40 Passaic St. About $45,000. Noted July 20.

Penn., Easton—Store—W. Kueblers Sons let contract, 3-story, 45x100-ft., brick and concrete to A. A. BECHTEL, Easton, $80,000.

Penn., Philadelphia—Nurses' Home—City received low bid, 4-story addition, on 34th St., from Warren-Moore & Co., $198,000. P. H. Johnson, Land Title Bldg., Philadelphia, Arch. Noted Nov. 30.

D. C., Washington—Auditorium—Knickerbocker Theater Co., 3520 16th St., let contract 3-story to F. L. WAGNER, 1413 H St., N. W., Washington. About $80,000.

N. C., Asheville—Hotel—Kenilworth Hotel Co. let contract, rein.-con. and tile to CAROLINA WOOD PRODUCTS CO., Asheville. About $250,000.

Ga., Atlanta—Y. M. C. A. let contract 5-story, 65x125-ft. building to SOUTHERN FERRO CONCRETE CO., Equitable Bldg., Atlanta. Noted Nov. 9.

Ga., Atlanta—Bank—Union Savings Bank let contract to SOUTHERN FERRO CONCRETE CO., Equitable Bldg., Atlanta. About $60,000. Noted Aug. 31.

Fla., Orlando—Theater—P. Philips, M. D., let contract, 65x118-ft., Pine St. and Orange Ave. to F. A. PEPPERCORN, Orlando. About $50,000. Noted Oct. 12.

Fla., Orlando—Hospital—City let contract, on Orange St., to HANNER BROS., $61,300.

Fla., Tampa—Clubhouse—Circulo Cubano Club let contract 4-story, to McGUCKEN & HYER, $59,773.

La., New Orleans—Church—Napoleon Ave. Presbyterian Congregation let contract to W. W. VAN METER, 808 Perdido St., New Orleans. About $57,000.

Ohio, Cincinnati—(Official)—High School—Bd. Education received low bid, East Side, from Roose Bros., 2814 Stanton W. H., $144,000.

Ohio, East Palestine—Hotel and Club House—W. C. Owen & Co., 408 Euclid Bldg., Cleveland, making plans, 4-story, 44x120-ft. About $75,000.

Ohio, Youngstown—Parochial School—St. Elizabeth's Slovak Church let contract 3-story, 88x122-ft., to J. DUVOLICH, 126 South Pearl St. About $80,000.

Mich., Jackson—Lodge and Store—Jackson Country Club Building Co. let contract 3-story, 86x132-ft., to NORTH & BRADSHAW, 119 West Courtland St., Jackson. About $90,000. Noted June 29.

Mich., Ypsilanti—Hospital—City rejected bids. S. Damon, City Clk.

Wis., La Crosse—State Bd. Regents, Madison, let contract 3-story, 30x58-ft. physical-training building, to C. NOBLE, State Noble Bank Bldg., La Crosse. Noted Aug. 10.

Iowa, Early—School—City let contract to HINTZ, McKEE & GORDES, $72,000.

Iowa, Havelock — (Official) — School—Consolidated School Dist. let contract, 2-story, 62x152-ft., to DUBEL & ANDERSON, Sioux City, $46,800. Noted Nov. 2.

Iowa, Rolfe—High and Grade School—Independent School Dist. let contract 2-story, 62x153-ft., to STANDARD CONSTRUCTION CO., Plymouth Bldg., Minneapolis, Minn. About $80,000. Noted Nov. 2.

Minn., Anoka—Hospital—State Bd. let contract 3-story, 55x95-ft., to CAMERON & CO., 505 Ryan Bldg., St. Paul. Noted Nov. 30.

Minn., St. Paul—Clubhouse and Store—St. Paul Athletic Club let contract 12-story, 100x150-ft., to C. SKOOGLUN, 502 Ryan Bldg., St. Paul. About $650,000. Noted Sept. 7.

Mo., Joplin—Pasenger Station—Missouri, Pacific Railway System let contract to H. O. HIRSCH Wainwright Bldg., St. Louis, $50,000.

Mo., Joplin—High School—City let contract, on 8th and Wall St., to DIETER & WENZEL $195,293.

Mo., St. Joseph—Hotel—Buchanan Hotel let contract addition, Rocidouz, 5th and Francis St., to LAWHON STAMEY CONSTRUCTION CO., 212 North 7th St. Noted Aug. 10.

Tex., Vernon—Hotel—J. H. Kinchelee let contract to G. A. SWINBURN, Vernon.

Okla., Ardmore—Passenger Station—Gulf, Colorado & Santa Fe Railroad Co. let contract to H. D. McCoy, Cleburn, Tex., $40,000.

Okla., Perry—Courthouse—City let contract to MANHATTAN CONSTRUCTION CO., Muskogee. About $100,000.

Ariz., Kingman—High School—City let contract rein.-con. to EDWARDS & WILDEY CO., 515 Black Bldg., Los Angeles, Calif., $46,750.

Calif., Fresno—Hospital—Fresno County received low bid, addition, from Manning Bros., $63,850. Noted Oct. 26.

Calif., Los Angeles—Los Angeles Union Terminal Co. let contract, 4 buildings, to WURSTER CONSTRUCTION CO., Spreckles Bldg., San Diego, $2,500,000.

Calif., South San Francisco—High School—School Trustees let contract to H. WILLIAMS, Hearst Bldg., San Francisco, $59,700.

Calif., Stanford University—Library—City let contract to P. J. WALKER CO., Monadnock Bldg., San Francisco, $500,000.

Que., Montreal—Theater—Victoria Theater Co. let contract to A. ANGLINS, LTD., 65 Victoria St., $125,000. Noted Nov. 23.

TRADE PUBLICATIONS

Facts About Gears. The Van Dorn & Dutton Co., Cleveland, Ohio. Booklet; pp. 40; 5½x7½ in.; illustrated This contains tabulated data on gearing terms, drawings, specifications, etc.

Vasco Vanadium Steel. Vanadium-Alloys Steel Co., Pittsburgh, Penn. Folder describing various types of this alloy steel.

Ingersoll-Rogler Air Compressors. Ingersoll-Rand Co., 11 Broadway, New York. Form No. 3130; pp. 24; 6x9 in.; illustrated. Describing machines fitted with the new-type light-plate valves.

Blawforms. Blaw Steel Construction Co., Pittsburgh, Penn. Catalog No. 16; pp. 128; 6x9 in.; illustrated This contains text and photographs showing the adaptability of Blaw steel forms for concrete work of all kinds.

Lime and Hydrated Lime Plant Equipment. Atlas Engineering Co., Amherst, Ohio. Bulletin No. 101; pp. 18; 6x9 in.; illustrated.

The "Crescent" Electric Industrial Truck. Samuel L. Moore & Sons Corporation, Elizabeth, N. J. Bulletin No. 103; pp. 8; 6x9 in.; illustrated.

Nut Locks. The O. K. Nut Lock Co., Turks Head Bldg., Providence, R. I. Catalog; pp. 12; 6½x9 in.; illustrated.

Concrete Construction. Turner Construction Co., 11 Broadway, New York. Bulletin No. 19; pp. 14; illustrated. This shows the construction of a building in winter.

Efficiency of Dirt-Handling Methods is discussed in a pamphlet entitled "Cycles of Cost and Operation," issued by the Western Wheeled Scraper Co., Aurora, Ill. Covers railway maintenance-of-way and betterment work and is especially intended for railway executives and engineers. Pp. 16; 8½x11 in.; illustrated.

Little David Pneumatic Riveting Hammers. Ingersoll-Rand Co., 11 Broadway, New York. Form No. 8311; pp. 16; 6x9 in.; illustrated.

Simplex Pole Jack. Templeton, Kenly & Co., Ltd., 1020 South Central Ave., Chicago, Ill. Bulletin; pp. 8; 8½x11 in.; illustrated This describes jack specially designed for pulling, straightening and reinforcing telephone, trolley and lighting poles.

Chinese Railways—Efforts are being made to revive the project of railway extension in Anhui Province planned some time ago. Routes from Hangchow to Kuangteh and Hweichow have already been surveyed, and arrangements are now being made between the Chekiang and Anhui promoters and the representatives of the Shanghai-Hangchow Nanking Ry. The completion of this railroad will bring Mokanshan summer resort within a few hours of Shanghai, and will also afford transportation for the stone of the Shanghai Municipal Pingchiao quarry to Hangchow and Shanghai. It is proposed to induce the Government to hasten the building of the line, which will be beneficial to all interests in Anhui. Construction work on the Canton-Hankow railway has continued despite the war, but it will be impossible to push on to completion the section from Wuchang to the border of Kwangtung Province, where it is to join with the section being constructed from Canton northward. Connection will, at all events, be made between Wuchang and Changsha, the capital of Hunan, a distance of 225 mi., by the end of this year. Bridging is proving exceedingly expensive and difficult, the rise of water from low to high tide being about 40 ft., and necessitating unusually high bridges. Some 52 mi. of rails have already been laid south from Wuchang, and it is hoped soon to operate a regular service.

Louis C. Kelsey, Consult. Engr., has opened a branch office in the Twin Falls Trust Bldg., Twin Falls, Idaho. Main offices will be retained at 410 Selling Bldg., Portland, Ore.

The Construction and Repair Division, Headquarters Southern Department, Office Department Quartermaster, Fort Sam Houston, Tex., would like to receive from material dealers and manufacturing companies, catalogs and price lists of all supplies handled by them.

The Lidgerwood Manufacturing Co., New York, has opened a branch office in the Hibernian Bldg., Los Angeles, Calif. Charles A. Baechtold is in charge.

The Ransome Concrete Machinery Co., Dunellen, N. J., has been obliged to make an advance of 10% in the list price of all machinery, and probably will make another advance of 10% in the selling prices after Jan. 1, 1917. This is owing to the scarcity of raw materials and labor due to the exportation to European countries of war munitions and materials.

The Terry Steam Turbine Co., Hartford, Conn., announces the appointment of Stephenson & Nichols, Monadnock Bldg., San Francisco, Calif., as its representative in northern and central California and the northern part of Nevada.

ROAD, BALTIMORE, MD.

Bids were received by Water Department, Filtration Division, for Contract No. 44, constructing Rd. No. 4 at Loch Raven, from (A) CAROZZA & CHRISTHILF (awarded contract); (B) Thomas Mullan; (C) C. B. Clark & Co. The item bids were as follows:

	A	B	C
Clearing and grubbing (lump sum)	$200.00	$400.00	$125.00
8,000 cu.yd. earth excavation and embankment	.45	.75	60
500 cu.yd. loose rock excavation	.60	1.00	1.20
800 cu.yd. solid rock excavation	1.00	.01	3.00
328 cu.yd. concrete	12.44	15.00	14.00
20,800 lb. steel reinforcement	.06¼	.08	05¼
18,500 sq.yd. paving roads with tar-bound-macadam	1.39	1.25	1.30
1,500 lin.ft. wooden guard rail	.60	.75	35
1,600 lb. c.-i. grating	.12	.08	.10
Extended totals	$37,139	$37,870	$38,396

INTERCEPTING SEWER, MILWAUKEE, WIS.

Contract No. 14

Bids were received by the Sewerage Commission, Nov. 16, for Contract No 14 of the West Side Milwaukee River Intercepting Sewer from (A) HERMAN HOHENSEE, Milwauke (awarded contract); (B) G. E. Zimmerman, Milwaukee; (C) J. F. Casey Co., Pittsburgh, Penn.; James Ferry & Sons, Inc., Baltimore, Md., $120,660; Sterling Engineering and Construction Co., Milwaukee, $139,535; J. Kennedy, Fargo, N. D., $172,850; Wisconsin Tunnel and Construction Co., Milwaukee, $152,305. The item bids of the 3 lowest bidders were as follows:

	A	B	C
244 lin.ft. reinforced concrete aqueduct	$10,000.00	$14,800.00	$10,000.00
60 lin.ft. 8-in. terra cotta pipe connections at Aver ave	7.00	200.00	154.00
3,900 lin.ft. 60-in. concrete sewer	16.90	16.70	17.75
1,550 lin.ft. 60-in. reinforced concrete sewer	18.90	17.50	18.75
100 lin.ft. 24-in. terra cotta pipe culvert	7.00	7.00	2.50
240 lin.ft. 18-in. terra cotta pipe culvert	7.90	6.00	2.00
200 vert. ft. standard manholes	5.00	7.00	6.00
18 c.-i. manhole frames and covers	12.00	20.00	20.00
26,000 b.m. ft. plank foundation	22.00	22.00	25.00
10,000 b.m. ft. timber caps	30.00	25.00	25.00
6,000 lin.ft. piles in place	.40	.30	.50
3,000 lin.ft. underdrain	.35	.40	.50
Extended totals	$113,346	$114,977	$116,131

Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Massachusetts—Lawrence Bridge Comn., office J. J. Donovan, Room 507-8, Bay State Bldg., Lawrence, receiving bids Dec. 20, about 1,500 lin.ft. double-track on Central Bridge over Merrimack River. B. H. Davis, Whitehall Bldg., 17 Battery Pl., New York, Consult. Engr. (See adv.)

New Jersey—Bd. Freeholders Gloucester County, Woodbury, interested in electric railway from Woodbury to Paulsboro and Pennsgrove. Address County Clk., Woodbury.

New Jersey—Pennsylvania R.R. plans 2 additional tracks on New York & Philadelphia Div., to form 6-track system. Plans include 6-track bridges and will eliminate grade crossings between Morrisville and Philadelphia. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Pennsylvania—East Broad Top Railroad and Navigation Co. making surveys line from Alvin to new mine near Wells Tannery, about 5 mi. E. C. Hall, Orbisonia, Gen. Mgr.

Pennsylvania—Johnstown Traction Co. plans line from Johnstown to New Florence. About $300,000. E. M. duPont, Johnstown, Gen. Mgr.

Pennsylvania—Pennsylvania R.R. plans line from Tamaqua to Hazelton, about 40 mi. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Pennsylvania—Pub. Ser. Comn., Harrisburg, plans to operate trackless trolley line on highway from Dover to Rossville.

Virginia—Virginian Railway Co. plans additional yard tracks at Roanoke, also other improvements. H. Fernstrom, Norfolk, Ch. Engr.

West Virginia—Chesapeake & Ohio Ry. plans extensive track improvements at West Huntington, including side tracks, switches, etc. F. I. Cabell, Richmond, Ch. Engr.

South Carolina—Columbia Railway and Navigation Co. making surveys line from Columbia via Lexington and Saluda to Greenwood, about 70 mi. F. H. Haskell, Columbia, Engr.

Georgia—Americus, Hawkinsville & Eastern Ry. plans extension to Americus, about 12 mi. Address J. S. Morton, Gen. Mgr., Georgia Lumber Co., Byromville.

Alabama—Vida Lumber Co. will build narrow-gage railroad in Clanton.

Louisiana—Gulf, Sabine & Red River Railway and Navigation Co. plans line from Nibletts Bluff, La., to Sabine River opposite Orange, Tex., about 9 mi.; also from Francis to Leesville, La., about 16 mi. Lutcher & Moore Lumber Co., Orange, owners.

Ohio—Cleveland Railway Co. granted franchise by Council to extend car tracks on Hough Ave to East 105th St., Cleveland. G. L. Radcliffe, Leader-News Bldg., Cleveland, Ch. Engr.

Ohio—Ohio Electric Ry. plans to extend tracks on East Grand Ave. to Cincinnati, Hamilton & Dayton Ry., Lima. A. Benham, Ohio Interurban Bldg., Springfield, Gen. Mgr.

Ohio—Recording and Computing Machines Co., Dayton, plans electric railway from center of city to factory. W. I. Ohmer, Pres.

Illinois—Illinois Central R.R., Chicago, plans to electrify all suburban tracks within next 5 years. A. S. Baldwin, 135 East 11th Pl., Chicago, Ch. Engr.

Nebraska—Omaha, Lincoln & Beatrice Interurban Co., Lincoln, to let contracts line from Lincoln to Omaha in spring. J. M. Bramlette, Lincoln, Gen. Mgr. Noted Oct. 19.

North Dakota—Chicago, Milwaukee & St. Paul Ry. plans line from New England to Amidon, about 35 mi., in spring. About $750,000. C. F. W. Loweth, Railway Exchange Bldg., St. Paul, Ch. Engr.

Missouri—Southwest Missouri R.R. making plans extension from Galena, Mo., to Baxter Springs, Kan., about 9 mi. A. H. Rogers, 112 North Madison St., Webb City, Pres. and Treas.

Texas—A. L. Matlock, San Antonio, interested in railway from Deepwater across Rockport Bay to Lamar, Refugio and other points in central Texas to Quanah.

Texas—Atchison, Topeka & Santa Fe Ry. plans extension from Lindsay to Wichita Falls. C. F. W. Felt, Chicago, Ch. Engr.

Texas—Missouri, Kansas & Texas Ry. plans to double-track main line from Pacific Ave. to Walters St., Dallas. About $600,000. L. F. Lonnbladh, Dallas, Ch. Engr.

Oklahoma—Ringling & Oil Fields Railroad Co. incorporated with $300,000 capital stock, plans line from Ringling to Oklahoma City, about 120 mi. J. L. Hamon, of Oklahoma, New Mexico & Pacific R.R., interested.

Arizona—Arizona & Swansea Railroad Co. making surveys extension 40 mi. northeast from Bouse to Bagdad copper dist. A. W. Mitchell, Bouse, Gen. Mgr.

Washington—Chicago, Milwaukee & St. Paul Ry. plans line from Elma into Olympic Peninsula in spring. C. F. W. Loweth, Railway Exchange Bldg., St. Paul, Ch. Engr.

California—Municipal Railways of San Francisco plans 20 mi. new tracks into residential district. T. A. Cashin, San Francisco, Supt.

California—Salt Lake & Los Angeles Ry., Salt Lake Route, plans line from Pico to Santa Ana, about 25 mi. J. Nelson, Salt Lake City, Utah, Pres. and Gen. Mgr.

Bids In and Contracts Awarded

Illinois—Aurora, Mendota & Western R.R. to build electric railway from Aurora to Mendota by day labor. H. D. Hallett, 132 Downer Pl., Engr.

Idaho—Idaho Match Block Co., Sandpoint, let contract logging railroads to G. A. CARLSON, Spokane, Wash.

Utah—Western Pacific R.R. let contract grading and placing track on branch line from Grants Station on main line west from Salt Lake City to Tooele, about 16 mi., to UTAH CONSTRUCTION CO., Ogden.

California—Salt Lake & Los Angeles Ry., Salt Lake Route, let contract 18-mi. extension from Pico to Anaheim to R. SHERER & CO., 650 Pacific Electric Bldg., Los Angeles, about $260,000

LIGHT, HEAT AND POWER

Proposed Work

Maine, Islesboro—Islesboro Inn making plans power house in Dark Harbor Dist. Evans & Warner, Witherspoon Bldg., Philadelphia, Penn., Arch.

Maine, South Berwick—Berwick & Salmon Falls Electric Co., Masonic Bldg., Dover, N. H., making plans power plant to include concrete dam 240 ft. long and 16 ft. high. About $100,000. I. W. Jones, Milton, Engr. Noted Nov. 30.

Vt., Barre—Central Power Co., recently organized to develop water powers on Middlebury River and branches applied to Council for franchise transmission lines into Barre.

Vt., Gaysville—Gaysville Electric Light and Power Co. plans extending electric transmission line to Barnard Village. I. M. Frost, Gryphon Bldg., Brandon, Vt., Vice-Pres. and Gen. Mgr.

Mass., Weymouth—Weymouth Light and Power Co. plans extending distributing system.

Conn., Devon—(Milford post office)—United Light and Water Co., Waterbury, plans power plant at Devon. About $1,000,000.

N. Y., New Lebanon—Albany Southern Railroad Co. plans extending transmission line from Brainard to New Lebanon. G. F. Silvia, Rensselaer, Ch. Engr.

N. Y., Rushford—Cuba Electric Co. plans extending transmission line.

N. Y., Rossie—Village plans electric-light and power plant.

N. J., Newark—Bd. Pub. Wks. considering electric-light plant and power station on Elizabeth Ave.

N. J., Newton—Newton Electric and Gas Co., recently incorporated with $500,000 capital stock, applied to Bd. Pub. Utility Comrs. for permission to issue bonds to extend and improve plant.

Penn., Ambridge—Duquesne Light Co., Pittsburgh purchased site at Ambridge, plans substation. F. Uhlenhaut, Jr., Pittsburgh, Ch. Engr.

Penn., Tunnelton—Bessemer Coal and Coke Co. making plans 1-story, 44x101-ft. substation. Randolph Means Co., Oliver Bldg., Pittsburgh, Engr.

Va., Franklin—City plans voting on $40,000 bonds to improve electric-light system.

Va., Franklin—See item under "Water-Works."

Va., Richmond—Virginia Railway and Power Co. granted permit for 13,500-volt transmission line to connect with American Locomotive Works.

W. Va., Clarksburg—Monongahela Valley Traction Co., Fairmont, and Clarksburg Light and Heat Co. plan transformer station in Clarksburg.

Ga., Greensboro—City plans electric-light plant.

Fla., New Smyrna—City plans street-lighting system.

Ala., Canton—Town granted Alabama Power Co. franchise to install electric-light plant.

Ohio, Athens—Ohio State Hospital made application to State Bd. Administration for appropriation for power plant and other improvements. About $50,000.

Ohio, Cleveland—Ward Baking Co. plans power house on Perkins Ave. C. B. Comstock, 110 West 49th St., New York, Arch.

Ohio, Monroe—Middletown Gas and Electric Co., Middletown, plans extending transmission line to Monroe.

Ohio, Oxford—City voted $10,000 bonds to rebuild and extend electric-light plant.

Ill., Gibson City—Bd. Local Impvts. making plans electric-light and water plant. Receiving bids Apr. 1. About $30,000. Melluish & Broyhill, Unity Bldg., Bloomington, Engr.

Ill., Granite City—Pub Utilities Comn. granted Madison County Light and Power Co. permission for transmission line from Granite City to Nameoki.

Wis., Milltown—Town granted A. O. Dahlberg, Clam Falls, franchise electric-lighting system for period of 25 years.

Wis., Thorp—Wisconsin—Minnesota Light and Power Co. plans extending transmission line to Thorp. J. H. Brewer, Grand Rapids, Mich., Pres.

Wis., Waupaca—Waupaca Electric Service and Railway Co. plans improving power plant.

Iowa, Nora Springs—Nora Springs Light and Power Co. plans improvements.

Iowa, Webster City—City receiving bids Jan. 8 improving electric-light and water plants. Noted Dec. 7.

Minn., Wabasha—Wisconsin & Minnesota Light and Power Co. will build transformer station by day labor.

Neb., Oconto—Local business men plan to organize company to install electric-light plant.

S. D., Lesterville—Council plans election to vote on $18,000 bonds to build electric-light plant.

N. D., McHenry—City voted bonds to build electric-light plant.

Wyo., Cokeville—I. McNeice interested in construction electric-light plant on Pine Creek.

Mo., Mt. Vernon—City making plans electric-light plant. About $10,000. C. Moore Engineering Co., Frisco Bldg., Joplin, Engr. Noted Oct. 26.

Tex., Garwood—J. J. Cooper and associates plan electric-light and power plant.

Tex., Marlin—Marlin Ice and Electric Co. plans extending and improving electric-light plant.

Tex., Newcastle—Newcastle Light and Power Co. granted franchise electric-light plant.

Okla., Collinsville—Comrs. making plans extending electric-light plant.

Okla., Lindsay—City voted $8,000 bonds to improve electric-light plant.

Calif., Los Angeles—Sespe Light and Power Co., Los Angeles, making plans hydro-electric plant on Ventura River. R Bennett, Central Bldg., Los Angeles, Engr.

Calif., Niland—Southern Sierras Power Co., Riverside, plans transmission line from Niland to head of Almo Canal. About $150,000.

Que., Lake Megantic—Lake Megantic Electric Co. will rebuild plant recently destroyed by fire.

B. C., Trail—Consolidated Mining and Smelting Co. of Canada plans improving lighting and power systems. About $25,000 or $30,000.

Bids In and Contracts Awarded

N. Y., Rensselaer—Bayer Chemical Co. let contract 1-story, 50x75-ft. power plant to OSCAWANA BUILDING CO., 101 Park Ave., New York.

Ill., Kewanee—Kewanee Boiler Co let contract 1-story boiler house to V. JOBST & SONS, 218 South Adams St, Kewanee.

BRIDGES

Proposed Work

N. H., Manchester—City plans new bridge to replace Amoskeag Bridge. About $100,000 to $200,000. S. J. Lord, City Engr.

Mass., Chicopee—City plans to replace bridge on Grattan St. over tracks Boston & Maine R.R. with steel structure. F. P. Cobb, City Engr.

R. I., Woonsocket—See item under "Streets and Roads."

N. Y., Poughkeepsie—New York, New Haven & Hartford R.R. plans to remodel and improve Poughkeepsie Bridge over Hudson River. About $750,000. E. Gagel, New Haven, Ch. Engr.

N. Y., Yonkers—Bd. Supervs. Westchester County soon receives bids, bridge over Bronx River between Yonkers and Tuckahoe, 89 ft. long, 43-ft. span, rein.-con., granite facing. About $17,000. H. Green, White Plains, County Clk. C. MacDonald, Jr., Tarrytown, Engr. Noted Jan. 6.

Penn., Mont Clare—Montgomery County soon receives bids, bridge over canal in Mont Clare. About $15,000. R. A. Hatfield, Norristown, County Clk.

W. Va., Fairmont—City voted $760,000 bonds to build 2 bridges, 1 over Monongahela River, about $350,000, and remainder for improvements. S. B. Miller, City Engr. Noted July 6.

W. Va., Grafton—Taylor County soon receives bids 8 concrete bridges. Address County Clk., Grafton.

Bridges (Continued)

Ga., Woodbine—Comrs. Rds. and Revenues, St. Marys, lets contract in spring bridge over Satilla River on eastern branch Dixie Highway. About $20,000. W. M. Torrance, 814 Savannah Bank and Trust Bldg., Savannah, Engr. Noted May 11.

Ala., Flomaton—Escambia County receiving bids Dec. 22, steel or concrete bridge, 400 ft. long, over Big Escambia Creek. Address County Clk., Brewton.

Tenn., Manchester—City plans viaduct over tracks Nashville, Chattanooga & St. Louis Ry. on McLean St. H. McDonald, Nashville, Ch. Engr.

Ohio, Ashland—(Official)—Ashland County receiving bids Jan. 5 bridges in Mifflin and Milton Townships. G. Brubaker, Ashland, County Clk.

Ohio, Canton—City plans 1,077-ft. viaduct over tracks Wheeling & Lake Erie R.R., branch of East Creek and property of United Furnace Co. to Georgetown Rd. About $70,000. W. E. Sarver, City Engr.

Mich., Detroit—Bd. Consult. Engrs. estimate cost rein.-con. bridge connecting city with Belle Isle at $2,000,000; subway approach from mainland at Jefferson Ave. at $125,000. M. E. Cooley, University of Machigan, Chn.

Ill., Pontiac—Livingston County receives bids about Feb. 1, bridge over Vermillion River, three 90-ft rein.-con. spans, 42 ft. wide. About $30,000. Address County Clk., Pontiac.

Wis., Milwaukee—City plans State Oneida St. bridge over Milwaukee River. J. C. Pinney, Jr., Comr. Bridges G. Staal, City Engr.

Wis., Weblake—Joint Town and County Com. plans 70-ft. steel truss bridge over Namakagan River. H. Jeffries, Danbury, County Highway Comr. in charge plans.

Iowa, Des Moines—City receiving bids Dec 22, bridge on Court Ave. About $175,000. Marsh Engineering Co., Engr. Noted Apr. 13.

Iowa, Dows—Wright County making plans improving Iowa River bridge north of Dows. Plans include 2 new spans, 2 rein.-con. abutments, new steel joists to present 100-ft. span and paving roadway, wood block. L. G. Krull, Clarion, County Engr.

Iowa, Marshalltown—Marshall County sold $50,000 bonds to build bridges. Address County Clk., Marshalltown.

Iowa, Rock Rapids—Lyon County soon lets contracts bridges. About $70,000. W. E. Wyckoff, Rock Rapids, County Engr.

Minn., Fond du Lac—St. Louis County appropriated $40,000, bridge over St. Louis River. Address County Clk., Duluth.

Minn., Red Wing—Goodhue County making surveys several rein.-con. bridges. C. W. Johnson, Red Wing, County Engr.

Kan., Paola—Miami County receiving bids Dec. 27, 9 steel and rein.-con. bridges. C. H. Helman, Paola, Clk. Noted Nov. 16.

Mont., Superior—Mineral County voted $75,000 bonds to build bridges on Yellowstone Trail. Address County Clk., Superior.

Mo., Kansas City—Officials of Kansas City, Mo., and Kansas City, Kan., Missouri Pacific and Union Pacific Rys. to rebuild James St. Viaduct between 2 cities. Kansas City, Mo., to bear $7,000 of cost, Kansas City, Kan., $20,000, and railways $98,000. C. Hill, City Engr., Kansas City, Mo. Noted June 22.

Ark., Batesville—(Official)—Independence County receiving bids Jan. 3, 5 steel bridges. F. C. Hoyt, Batesville, County Judge.

Okla., McLoud—Bales Township voted $25,000 to build culverts. Noted Nov. 16.

Okla., Oklahoma—Oklahoma County making plans 10 bridges. About $20,000. H. C. Adams, Oklahoma, County Engr.

Okla., Oklahoma—Oklahoma County soon lets contract 20 steel and concrete bridges, 9 of which will be over North Canadian River. About $35,000. H. Adams, Oklahoma, County Engr. Noted Oct. 5.

Utah, Salt Lake City—City will ask State Legislature to appropriate money bridge between City Creek Canyon and Wasatch Blvd. connecting latter at 11th Ave. About $150,000 to $200,000. J. Dern, State Capitol Comr.

Wash., Seattle—(Official)—Bd. Pub. Wks. receiving bids Dec. 22 wooden draw bridge. About $7,000. F. A. Rapp, Bridge Engr. Noted Nov. 23.

Wash., Toledo—Lewis County made surveys bridge over Cowlitz River. Address County Clk., Chehalis.

Ore., Grants Pass—See item under "Streets and Roads."

Ont., Alvinston—Michigan Central Ry. plans rein.-con. bridge. G. H. Webbs, Pass Terminal Station, Detroit, Mich., Ch. Engr.

Ont., Hamilton—City soon lets contracts bridges at Bronte, Oakville and Port Credit on Hamilton-Toronto Highway; also 24-ft road from Etobicoke to Toronto. H. Bertram, Comr.

B. C., Prince George—Provincial Dept. Pub. Wks. plans bridge over Fraser River. About $150,000.

Bids In and Contracts Awarded

Mass., Boston—Boston & Albany Railroad Co. let contract drawbridge over Chelsea Creek, East Boston, to STRAUSS BASCULE BRIDGE CO., 104 South Michigan Ave., Chicago.

N. Y., Lockport—City received low bid bridge on Adams St. from TIFFT CONSTRUCTION CO., Buffalo, about $82,276.

Penn., Philadelphia—Dept. Pub. Wks. let contract painting and repairing bridges to AMERICAN R. C. CO., 211 South 9th St., and M. & J. B. McHUGH, 892 North Market St. About $49,641.

N. C., Gastonia—Gaston County let contract bridge over Long Creek between Gastonia and Dallas to C. W. REQUARTH & CO., Asheville, about $6,880.

La., Des Allemanda—(Official)—Highway Dept. let contract bridge over Bayou Des Allemanda to BLODGETT CONSTRUCTION CO., Shreveport, about $21,612. Noted Nov. 16.

Ohio, Chillicothe—Baltimore & Ohio Railroad Co. let contract substructure bridge to SHEOSLEY & JANEY CONSTRUCTION CO., Johnstown, Penn.; superstructure to FT. PITT BRIDGE CO., House Bldg., Pittsburgh. About $50,000

Ohio, Dayton—Montgomery County let contract bridge No. 174, Jefferson Township, to HACKEDORN CONSTRUCTION CO., Indianapolis, about $30,000. Noted Nov. 9.

Ind., Shoals—(Official)—Martin County let contract 3 bridges to VINCENNES BRIDGE CO., Vincinnes, about $4,990. Noted Nov. 30.

Ind., Terre Haute—Vigo County let contract McKean Bridge to CRABB & LANDINE, Sullivan, $8,000. Noted Dec. 7.

Ind., Terre Haute—Vigo County let contract NATIONAL CONCRETE CO., Indianapolis, Anderson Bridge, Hamilton Township, $11,750; Altekruse Bridge, Honey Creek Township, $10,600.

Ill., Quincy—Adams County let contract bridge Atlas Township to W. HOOS, QUINCY, about $8,000.

Wis., Potter—Calumet County let contract 6 bridges to J. YOUNG & BROS., Oconto.

Iowa, Des Moines—City let contract bridge over Des Moines River on Grand Ave. to W. HORRABIN, Iowa City, about $180,000. Noted Nov. 2

Mo., Huntsville—Randolph County let contract 9 steel and 1 concrete bridges to LYNCH-McDONALD CONSTRUCTION CO., Moberly, about $6,000.

Okla., Pawhuska—(Official)—City let contract 510-ft. rein.-con. bridge over Bird Creek to WESTERN BRIDGE CO., Harrisonville, Mo., $32,600. Noted Nov. 23.

Okla., Sapulpa—County let contract bridge over Cimarron River to KANSAS CITY BRIDGE CO., Kansas City, Mo.

N. M., Santa Fe—Mora County let contract 2 bridges over Canadian River at Romero Crossing to MISSOURI BRIDGE CO., about $23,897.

Calif., Eureka—(Official)—Northwestern Pacific Railroad Co. let contract steel work bridge over Eureka Slough between Eureka and Arcata to AMERICAN BRIDGE CO., Rialto Bldg., San Francisco. Other work to be done by day labor. Noted Nov. 30.

N. B., Fredericton—St. John & Quebec Ry. let contract bridge over Nerepis River to NOVA SCOTIA CONSTRUCTION CO., 159 Upper Water St., Halifax, $22,000.

Ont., Toronto—City let contract bridge foot Cherry St. to DOMINION BRIDGE CO., about $49,641. Noted Sept. 30.

WATER-WORKS

Proposed Work

Maine, Calais—Maine Water Co. plans to secure water from Howard Lake, about 6 mi. distant; 14- and 16-in. pipe will be needed. I. R. Bradley, Supt.

Mass., Georgetown—City plans water system.

Mass., Springfield—(Official)—Bd. Pub. Wks. does not plan to spend $7,000 to install water mains, as noted in Nov. 30 issue.

N. Y., Rochester—Council adopted resolutions water mains in Yates and Winbourne St., Devon Rd. and Brookdale Ave. B. C. Little, Supt.

N. Y., Yonkers—City plans water main in Dunham Rd to extend system. E. L Peene, Supt.

N. Y., Yonkers—(Official)—Bd. Pub. Wks. receiving bids Dec. 18, 3,000,000-gal. pump in tube well station. E L. Peere, Supt Noted Nov. 30.

N. J., Butler—Bd. Pub. Utility Comrs. granted permission to Butler Water Co. to divert and impound waters of Apshawa Brook, connecting with Pequannock River, for local distribution. G. L. Fritz, Secy. and Treas.

N. J., Linden—Linden Water Co. granted permission by State Dept. of Conservation and Development, Trenton, to divert water from Florence Mill Pond to supply Linden and neighboring communities. Noted May 18.

N. J., South Orange—Bd. Trustees plans to enlarge water system.

Penn., Altoona—City plans pumping station at Lake Altoona. About $6,000. C. W. Knight, Rome, N. Y., Engr.

Penn., Elwood City—Elwood City Water Co. making plans, concrete reservoir. R. I. Burt, Supt.

Penn., Harrisburg—Council passed ordinance to lay 5-in. water pipe in Chestnut St. H. F. Bowman, Supt.

Penn., Johnstown—Conemaugh & Franklin Water Co. will issue $125,000 bonds to build filtration plant and dam. Noted Aug. 10.

Penn., Philadelphia—New Chester Water Co receiving bids Dec. 27, reservoir and 18- and 24-in. c.-i. pipe from reservoirs to Marcus Hook. A. W. MacCallum, 26th and 3rd St., Philadelphia, Mgr.

Md., Baltimore—Water Bd., City Hall, made plans for water-works in South Baltimore. A. O. Babendreier, Supt.

Md., Salisbury—City plans improvements to water system. E. J. C. Parsons, Pres. of Council.

Va., Farmville—City plans to issue $15,000 bonds to build water system. B. L. Dugger, Supt. W. M Piatt, Durham, N. C., Engr.

Va., Franklin—City to issue $40,000 bonds to extend water and sewer systems, build filter plant, improve electric-light plant and streets. W. O. Bristow, Finance Comr.

Va., Petersburg—City plans $250,000 bond issue to build water and sewer mains and street paving. R. D. Budd, City Engr.

Ga., Tennille—City plans water system.

Fla., Tarpon Springs—City plans election to vote on $15,000 bonds to extend water-works.

Ohio, Bradford—Miami and Drake Counties vote Jan. 1 on bonds to install water system A. E Kimberly, 1031 Columbus Savings and Trust Bldg., Columbus, Engr. O. H. Preston, Supt., Water Dept. Noted Sept. 28.

Ohio, Cleveland—National Artificial Silk Co. plans filtration plant at 1,000 Walworth Rd. About $7,500.

Ohio, Cuyahoga Falls—(Official)—City receiving bids Dec. 18, 5,000 lin.ft. 6-in. and 12,000 lin.ft 4-in. water mains in Brodbeck Park. E D. Barstow, Engr.

Ohio, Deshler—City made plans water system.

Ohio, Euclid—City will build 10-in. water main in Euclid Ave. H. Migner, Supt.

Ohio, Lorain—Bd. Pub. Ser. soon receives bids improving water system. About $50,000. L. M. Moore, Mayor.

Ohio, Mansfield—Bd. of Control receiving bids Dec. 20, installing 2,300 water meters. W. R. Kuhn, Secy.

Ohio, New London—Council passed ordinance to build water-works. About $56,000. A. Ledgett, Clk. of Council. Noted Nov. 2

Ohio, St. Bernard—City voted $90,000 bonds to build water-softening plant. E. C. Heller, Supt. Noted Nov. 9.

Ohio, Westerville—City receiving bids in January improving water system. Richards Engineering Co., 37½ Long St., Columbus, and Herring & Gregory, New York, Consult. Engr Noted Oct. 5.

Ohio, Zanesville—(Official)—W. W Roach, Dir. Pub. Ser., receiving bids Dec. 20, steam, water, exhaust and air piping in pumping station, heater and boiler feed pumps, Item No. 8.

Ill., Gibson City—City receiving bids Apr. 1, water and light plant. Noted Nov. 9.

Ill., Springfield—City plans water main from pumping station to city. About $150,000. W. J. Spauding, Comr.

Wis., Hartford—City soon receives bids for artesian well on 6th St. Also plans 500,000-gal. reservoir. H. Parfrey, Supt.

Wis., Manitowoc—City plans 5,000 lin.ft. 6- and 8-in. pipe with 10 hydrants. L. K. Pitz, City Engr.

Wis., Marinette—City Water Co. plans improving plant.

Wis., Marshfield—City receives bids in January, improving water system. T. M. Young, Supt. Noted Nov. 9.

Iowa, Iowa Falls—City plans water system. B. S. Morgan, Supt.

Iowa, Madison—City plans water system; also extending sewer system. About $25,000. M. F. Brooks, Mayor.

Iowa, Webster City—See item under "Light, Heat and Power."

Iowa, West Burlington—City to vote Dec 26 on $70,000 bonds to improve water-works and to build storm and sanitary sewers. Noted Nov. 2.

Iowa, Woodworth—City will vote Dec. 18 on $7,500 bonds to build water-works.

Minn., Marshall—City retained O. H. Stark, Engr., Marshall, to make plans water system, sewers and drainage work. About $500,000.

Minn., Plainview—Council approved plans water system. J. F. Druar, 312 Commercial Bldg., St. Paul, Consult. Engr. Noted Oct. 5.

Minn., West Concord—(Official)—City voted $8,500 bonds to build water-works. R. C. Jones, Supt Noted Nov. 30.

Neb., Niobrara—City voted bonds to build water-works.

Neb., Scotts Bluff—(Official)—City voted $32,000 bonds to improve water-works. O. M. Finley, Supt. Noted Nov. 16.

S. D., Castlewood—City making plans, water system, including mains, tower and pumping station. About $20,000. Freed & Sours, Inc., Watertown

Mo., El Dorado Springs—City receiving bids Dec. 19, improving water system. About $20,000. Noted Nov. 2.

Water-Works (Continued)

Tex., Ft. Worth—City plans to improve filter plant. About $50,000. L. H. Blanke, Supt.

Tex., Greenville—City plans water-works improvements. C. I. Newman, Supt.

Okla., Crescent—(Official)—City does not plant water-works and sewer system as stated in issue of Nov. 30.

Okla., Kendall—City election Dec. 21 to vote on $45,000 bonds to install water-works. Noted Dec. 7.

Okla., Lindsay—City voted $6,000 bonds to improve water and light plant. A. W. Simpson, Supt. Noted Nov. 16.

Okla., Lindsay—City will purchase engine and other equipment for pumping station. A. W. Simpson, Supt.

Okla., Weleetka—Water-Works Co. plans 2 settling basins and filter plant, 500,000-gal. capacity, with motor-driven pumps.

Colo., Brush—City voted $8,000 bonds to install water system. A. D. Lierskow, Supt.

Colo., Denver—City plans extending water mains. D. G. Thomas, Supt.

Colo., Ft. Collins—City plans reservoir next year. A. A. Edwards, Supt.

Utah, Price—City plans 24 m[illegible]pe line from Colton to Price. About $200,00[illegible] Pace, Supt.

Ariz., Bisbee—Bisbee—Naco[illegible] Co. plans 50,000-gal. tank at water-works.[illegible] Sheppard, Supt.

Ariz., Williams—Council gr[illegible]ranchise to build water system to Williams Water and Electric Co. G. W. E. Griffith, 911 Trust and Savings Bldg., Los Angeles, Calif., Pres. Noted June 15

Wash., Camas—City plans water system. About $50,000. L. B. Wickersham, 1000 Chamber of Commerce Bldg., Portland, Consult. Engr.

Wash., Seattle—F. W. Allen, Engr., Seattle, made plans water system in Water Dist. No. 2. L. B. Youngs, Supt.

Ore., Hubbard—City made plans water system.

Que., Three Rivers—City plans to improve water system. R. S. & W. S. Lea, New Birks Bldg., Montreal, Consult Engr.

Ont., Smith's Falls—Town plans water main and sewer in Atironto St. About 3,500 ft. vitrified sewer pipe and same of c.-i. pipe. J. C. Hayes, Supt.

Man., Winnipeg—City soon receives bids water mains and sewer in Academy Rd. About $6,000. T. H. Hooper, Supt.

Bids In and Contracts Awarded

Mass., Boston—Bd. Pub. Wks let contract 1,660 lin.ft. 8-, 10- and 12-in. water pipe to A. CEFALO, 316 Belgrade Ave., Roxbury.

N. Y., New York—(Manhattan)—(Official)—W. Williams, Comr. Water Supply, Gas and Electricity, Municipal Bldg., Manhattan, received low bid Dec. 11, water mains in 5th and 6th Ave. and East 38th St. from Seracci Contracting Co., 170 Broadway, Manhattan, $18,219. Noted Dec. 7.

N. Y., Thiells—Bd. Mgrs. Lethworth Village let contract alterations to storage reservoir to J. W. HOLLER, Upper Broadway, Ft. Edward. Noted Nov 9.

N. J., Bridgeton—(Official)—City received low bids c.-i. pipe from R. D. Wood & Co., 400 Chestnut St., Philadelphia, Penn., $20,545; Central Foundry Co., 90 West St., New York, $20,398; United States Cast Iron Pipe and Foundry Co., Morris Bldg., Philadelphia, Standard Cast Iron Pipe and Foundry Co., Bristol, Penn., Donaldson Iron Co., Emaus, Penn., total of bids not extended; valves, Rensselaer Valve Co., 50 Church St., New York, $1,113; Eddy Valve Co., Waterford, N. Y., $1,113; hydrants, J. Thompson Co., Van Horn and Sophia St., Philadelphia, $1,278; coagulation basin, P. A. Hennessy, Haddonfield, N. J., $6,293; pig lead, N. Trotter & Co., 36 North Front St., Philadelphia, $0.0785 per lb. Noted Nov. 30.

Penn., Franklin—City rejected bids for rein.-con. pump well. J. G Crawford, City Clk. Noted Nov. 30.

Md., Baltimore—Maryland House of Correction will build water-works by convict labor. About $10,000.

Fla., Arcadia—City let contract water-works and sewers to FLORIDA NATIONAL VAULT CO., Lakeland, $39,000.

Ohio, Cincinnati—Bd. Contral let contract water mains in district bounded by 4th and 8th St., Central Ave. and Broadway, to THURBER & BROWNING CO., 4231 Spring Grove Ave., about $55,834.

Ohio, Cleveland—City let contract rebuilding clear water basin of Division Ave. filter plant to F. CASEY CONSTRUCTION CO., Oliver Bldg., Pittsburgh, Penn., $328,317. Noted Nov. 23.

Ohio, Troy—(Official)—Council let contract to PITTSBURGH METER CO., East Pittsburgh, Penn., for 1,000 water meters, $10,000. Noted Oct. 5.

Mich., Ann Arbor—(Official)—Ann Arbor Water Comn. let contract water pipe to HAMMOND BYRD IRON CO., 122 South Michigan Ave., Chicago, Ill., $36.75 per ton f.o.b. Ann Arbor. Noted Nov. 30.

Mich., Otsego—(Official)—City let contract improving water-works to TRAVERSE CITY IRON WORKS, Traverse City, Mich., $16,580. Noted Nov. 30.

Ill., Amboy—City let contract extending water mains to new hospital building to J. P. HARVEY.

Ill., Chicago—(Official)—City let contract 2 motors for pumping station to UNITED ENGINEERING CO., 327 5th Ave., Chicago, $38,740. Noted Nov. 2.

Wis., Elkhorn—City let contract water mains in Winsor, Adams and Wisconsin St. to A. M. LANYON.

Wis., West Allis—(Milwaukee Post Office)—Milwaukee Light, Heat and Traction Co., Public Service Bldg. let contract artesian well at power station, 77th and Summit Ave. to GRAY ARTESIAN WATER SUPPLY CO., 218 15th St., $8,000.

Minn., St. Paul—City received low bids sluice gates from Coldwell & Wilcox, Newburgh, $8,755; gate valves, J. B. Clow & Son, 544 South Franklin St., Chicago, $2,552; reinforcing steel, C. A. P. Turner Co., 615 Ryan Bldg., square twisted, $33,990, Jones & McLaughlin diamond bar, $32,800. Noted Nov. 16.

Minn., St. Paul—City let contract water system to THORNTON BROS., $37,982. Noted Aug. 17.

Mont., Troy—City let contract 60,000-gal. reservoir to F. E. EVANS CONTRACTING CO., Great Falls.

Tex., El Paso—City let contracts water system to FULTON IRON WORKS, engine and Aldrich pump, $58,700; U. S. CAST IRON CO., 10,000 ft. 24-in. Class B c.-i. pipe, $35.95 per ton; BAUMGARTEN & WYLE, pumping plant, $4,600. Noted June 22.

Tex., Llano—A. J. Zilker, Austin, let contract filter plant to G. HORNADAY, Dallas.

Okla., Oklahoma—(Official)—City let contract two large Ambursen dams, flood control works, emergency dam, brick and steel gate houses, feed control system, 500 ft. rein. conduit, etc., to AMBURSEN CONSTRUCTION CO., 61 Broadway, New York, N. Y. Complete water system to cost $1,500,000. H. M. Nabstedt, Res. Engr. G. V. McClure, City Engr. Noted Nov. 30.

Calif., San Rafel—Marin Municipal Water Dist. let contract tunnel under Pine Mountain to McLERAN & PETERSON, Sharon Bldg., San Francisco, $257,400. Noted Dec. 7.

Calif., Santa Barbara—City let contract to NATIONAL CAST IRON PIPE CO., Sheldon Bldg., San Francisco, 6-in. c.-i. pipe, $39.75 per ton; 4-in., $42.75; 10-in., $49.75.

Man., Winnipeg—(Official)—Greater Winnipeg Water Dist. Comrs. let contract 150,000 bbl. portland cement in connection with water system to CANADA CEMENT CO., Union Trust Bldg., $2.61 per bbl. Noted July 13.

SEWERS

Proposed Work

N. Y., Rochester—City soon receives bids sewers in Keller, Ohio, Kansas St. and Blossom Rd. About $32,800. F. S. Elwood, City Engr. Noted Nov. 16.

N. J., Bernardsville—City plans sewer system. About $80,000.

N. J., Leroy—City making plans sewer system. J. P. Wells, Rochester, Consult. Engr.

N. J., Trenton—City plans disposal plant on Buttonwood Island.

Penn., Erie—City receiving bids in January storm sewer Parade and Division St. About $25,000. F. G. Lynch, City Engr. Noted June 15.

Penn., Monaca—City making plans sewer system.

Penn., Pittsburgh—Council passed ordinance improving sewers portion Reedsdale St. R. Swan, City Engr.

Penn., Reading—City plans disposal plant. About $95,000. E. Ulrich, City Engr.

Penn., Williamsport—City soon receives bids sewers in Government Pl. and West Front St. J. B. Otto, City Engr.

Va., Franklin—See item under "Water-Works."

Va., Petersburg—See item under "Water-Works."

Va., Roanoke—City receives bids Dec. 26 sewers. F. L. Gibbonney, City Engr.

Fla., Arcadia—See item under "Water-Works."

Fla., St. Petersburg—City soon votes on $150,000 bonds to build sewers and disposal plant

Ohio, Bucyrus—Council passed ordinance improving Meadow Lawn Addition Sewer. F. L. Niederheiser, City Engr.

Ohio, Cahrdon—Council passed ordinance sanitary sewers and sewage-treatment plant. R. S. Parks, Village Clk.

Ohio, Canton—Council passed ordinance sewers in Parkhill, St. Elmo Ave., Olive Pl. and 4th St. W. E. Sarver, City Engr.

Ohio, Crestline—Council passed ordinance sewers in portion Bauer Ave. and South Seizer St. C. N. Babst, Mayor.

Ohio, Cuyahoga Falls—(Official)—City receiving bids Dec. 18, 10,000 ft. 8-in. and 3,200 ft. 12-in. sewers with "Y" branches and manholes, in Brodbeck Park. E. D. Barstow, Engr.

Ohio, Cuyahoga Falls—City receives bids Jan. 1 sewer in Front St. About $60,000. E. D. Barstow, City Engr.

Ohio, Dayton—City Comrs. authorized city to vote on $77,000 bonds in addition to $175,000 recently voted to build storm sewers. F. O. Eihelberger, City Engr.

Ohio, Elyria—Council passed ordinance sewer in portion Sewer Dist. No. 2 C. M. Braman, Clk.

Ohio, Ironton—Council passed ordinance sewers in 5th, 8th, Pine and Vine St. L. G. Howell, City Engr.

Ohio, Lorain—Council passed resolution improving portion East 26th St. C. M. Osborne, City Engr.

Ohio, Marion—City plans improving portion Hane Ave. Sewer. E. T. Ouet, City Engr.

Ohio, New Breman—City plans sewers in portion Herman St.

Ohio, Newcomerstown—City plans disposal plant.

Ohio, Shaker Heights—(Cleveland post office)—City receiving bids Dec. 19, storm and sanitary sewers in Kemper Rd. C. A. Palmer, 2855 Coventry Rd., Clk.

Ohio, Springfield—Council passed ordinance sanitary sewer in portion High St. M. J. Bahin, City Engr.

Ohio, Toledo—City made plans Ten-Mile Creek Sewer Dist. H. McKenchnie, City Engr.

Ohio, Woodsfield—Council passed ordinance sewer in portion Home Ave.

Ohio, Worthington—City plans sanitary sewer system. About $40,000.

Ohio, Youngstown—Council passed ordinance sewer in portion Wesley Ave. F. M. Lillie, City Engr.

Mich., Albion—City receiving bids in spring sanitary and storm sewers. About $30,000. W. E. Baumgardner, City Engr.

Mich., Brown City—City making plans sewer system. L. A. Boulay, 1250 Nicholas Bldg., Toledo, Ohio, Engr.

Mich., Flint—City plans to spend $167,000 storm sewers, $53,000 intercepting sewers, $28,000 sanitary sewers and $52,000 for paving during 1917. E. C. Shoecraft, City Engr.

Mich., Grand Rapids—Bd. Pub. Wks. plans disposal plant. W. S. Moore, City Engr.

Mich., Northville—City plans sanitary sewers and disposal plant. C. W. Hubbell, 2338 Penobscot Bldg., Detroit, Engr.

Ill., Dixon—Bd. Local Impvts. plans extending sewers in 4th St.

Ill., Dixon—Bd. Local Impvts. plans sewer in Monroe Ave. and Everett St. C. F. Nesbit, City Engr.

Ill., Hillsboro—Bd. Local Impvts. making plans sewer system. W. D. P. Warren, Decatur, Engr. Noted Nov. 9.

Ill., Quincy—City plans sewers in various streets. F. L. Hancock, City Engr.

Ill., Rock Island—City receiving bids Jan. 2 sewers and disposal plant. W. Treichler, City Engr. Noted Nov. 23.

Ill., Waukegan—Council passed ordinance sewers in portion Seward St. About $12,892 M. J. Douthitt, City Engr.

Wis., Menomonie—City making plans sanitary sewer in portion 10th St., receiving bids some time in January or February. F. Stewart, City Clk.

Iowa, Burlington—Council plans sewer in portion Doemland St. C. E. Waterhouse, City Engr.

Iowa, Madison—See item under "Water-Works."

Iowa, Sioux City—City plans West Morningside and North Riverside Sewer Systems. T. H. Johnson, City Engr.

Iowa, West Burlington—City votes Dec. 28 on bonds to build storm and sanitary sewers. Stevens & Stiles, 220 Commerce Bldg, Kansas City, Mo., Engr. Noted Nov. 9.

Minn., Farmington—City made plans sewer system. Bids soon. J. F. Druar, 314 Commercial Bldg., St. Paul, Consult. Engr. Noted Oct. 19.

Minn., Hinckley—City plans sewer system. F. Bass, 244 Plymouth Bldg., Minneapolis, Engr.

Kan., Clay Center—Council passed ordinance sanitary sewers in Sewer Dist. No. 53. E. R. DeBray, City Clk.

Kan., Hiawatha—Council passed ordinance lateral sewer in Dist. No. 1. J. W. Leibengood, City Clk.

Kan., Protection—City making plans sewer system. Black & Veatch, 507 Interstate Bldg, Kansas City, Mo., Engr.

Tex., Bryan—City made plans disposal plant. About $15,000. Noted Nov. 23.

Tex., Dallas—City Comn. plans to vote on $300,000 to build storm sewers. H. Moseley, City Engr.

Tex., Palestine—Council retained R. F. McDonald, Kansas City, Mo., to make plans disposal plant. A. L. Meyers, City Engr. Noted May 11.

Okla., Broken Arrow—City making plans 26,000 ft. 6-in., 12,000 ft. 8-in. and 800 ft. 10-in. sewer pipe and 2 disposal tanks. About $30,000. Machintosh-Walton Co., Oklahoma City, Engr.

Sewers (Continued)

Okla., Kendall—City election Dec. 21 to vote on $50,000 bonds to build sewers. Noted Dec. 7.

Okla., Sapulpa—City receiving bids in January storm sewers. R. E. Jeaness, City Clk.

Okla., Tulsa—City received no bids Nov. 29 sewer in Dist. No. 12. New bids. E. C. Hughes, City Engr.

Wash., Sumner—City making plans extending sewer system. W. P. Woods, City Engr.

Wash., Tacoma—City making plans sewers in 2d School Land Addition. About $65,000; also trunk main on 6th Ave., about $8,000. Noted Oct. 26.

Calif., Seal Beach—City voted Dec. 21 on $45,000 bonds to build sewers and disposal plant. Olmstead & Gillelen, 1011 Hollingsworth Bldg., Los Angeles, Engr. Noted Sept. 28.

Ont., Brantford—City plans storm sewer on Port St T. H. Jones, City Engr.

Ont., Smith's Falls—See item under "Water-Works."

India, Calcutta—(Official)—C. C. Chatterjee, Secy. to Corporation of Calcutta, receiving bids June 1, storm water pumping station. (See adv.)

Bids In and Contracts Awarded

Mass., Boston—E. F. Murphy, Comr. Pub. Wks., City Hall Annex, let contract pipe sewers and drains in Estella St. to G. J. REGAN, 92 Stoughton St., Dorchester.

Conn., New Britain—City let contract sewer in Lyon St. to J. P. MAGUIRE.

N. Y., Johnson City—City let contract sewer in portion Floral Ave. to G. SERAFINI, 10 Lafayette St., Binghamton.

N. Y., Larchmont—(Official)—Village Bd. Trustees received low bids Dec. 4, sewer system, from M. Decicco, $6,822; G. E. GaOgano Co., $7,292; S. Labarbera, $7,532. Noted Nov. 23.

N. Y., New York—(Manhattan)—(Official)—Boro. Pres., Municipal Bldg., let contract sewer in portion Spruce St. to LACONIA CONTRACTING CO., 835 East 213th St., Bronx. Noted Nov. 30.

N. Y., Schenectady—City let contract sewers in Cheltingham and Livingston Ave., to E. B. EDGAR, 737 Brandywine Ave., contract culverts in Chrisler Ave., to BECKWITH BROS., 119 Lafayette Ave.

N. J., Camden—City let contract sewer in portion Magnolia Ave. and Penn Ave. to A. WARD & SON, 524 Trenton Ave. Noted Nov. 2.

Penn., Mt. Lebanon—City let contract sewers to M. OTT & CO., 414 Warrington Ave., Pittsburgh, $8,630.

Penn., Philadelphia—(Official)—Bd Pub. Wks. let contract sewer in Germantown Ave. to DAVID McMAHON, Main and Chelton St., Philadelphia, $46,495.

Md., Hagerstown—Sewerage Comn. let contract 54-in. sewer, 1,100-ft. tunneling to R. CONNER & SON, Greensburg, Penn., $70,860. Noted Nov. 16.

Ga., Savannah—Chatham County Comrs. let contract Fell St. sewer to BEASLEY CONTRACTING CO., Savannah.

Miss., Oxford—Lafayette County Comrs. let contract sewers to A. W. WILLS & SON, Boatmen's Bank Bldg., St. Louis, Mo., $100,000.

Ohio, Cleveland—City let contract sewers in East 140th St. to GAUNE CONSTRUCTION CO., 16,510 Euclid Ave., $27,386.

Ohio, Shaker Heights—(Cleveland Post Office)—Village let contract storm and sanitary sewers in Warwick Rd. and Moreland Blvd. to S. A. HADDAD, 640 Bradley St., Cleveland.

Minn., St. Paul—City let contract sewer in portion Standish St. to THORNTON BROS. CO., 400 Scandinavian American Bank Bldg.

Minn., St. Paul—Dept. Pub. Wks. let contract sewers in portion Brand St. to J. J. CONNOLLY, 1007 Reaney St.; Indiana Ave. to C. JOHNSON, Scandinavian American Bank Bldg.; portions various streets to E. T. WEBSTER, 715 Germania Life Bldg., St. Paul.

Neb., Kearney—Council let contract sewer to C. J. BURKE.

Neb., Omaha—E. P. Donahue, 306 Lincoln Blvd., submitted low bid, $6,070, sewer in Dist. No. 585.

N. D., Fargo—Council let contract trunk line sewer to G. W. KEMPER, Minot. Noted Aug. 17.

Calif., Long Beach—City let contract sewer, Sewer Dist. No. 3, to TOMICH & JAEGER, 553 Pacific St., $37,000. Noted Dec. 7.

GARBAGE

Proposed Work

N. Y., New York—(Bronx)—(Official)—J. T. Fetherston, Comr. Street Cleaning, Municipal Bldg., Manhattan, receiving bids Dec. 21 removal of snow and ice during 1916-1917. Noted Aug. 10.

N. J., Newark—Pub. Market Com. receiving bids Dec. 20 for removal of rubbish, garbage and refuse from Center Market and removal of snow and ice from grounds, roofs and sheds of market for period of 1 year from January, 1917.

Mich., Ann Arbor—(Official)—Council making plans garbage disposal plant. M. Osgood, City Engr.

Bids In and Contracts Awarded

N. Y., New York—(Manhattan)—(Official)—J. T Fetherston, Comr. Street Cleaning, Municipal Bldg., received low bids Dec. 5 for removal of snow and ice during winter season of 1916-1917 from D. Rogge, 3071 Perry Ave., Bronx, 44c. per cu.yd.; Model Construction Co., 46c. per cu.yd.; C DeMarco, 239 East 17th St., 47c. per cu.yd. Noted Nov. 30.

Penn., Philadelphia—(Official)—Dept. Pub. Wks. let contracts collection of ashes (a) Dist. 1A, (b) Dist. 1B, (c) Dist. 2, (d) Dist. 3, (e) Dist. 4A, (f) Dist. 5, (g) Dist. 6 to (a) J. A. MULLEN, 5512 Vine St., Philadelphia, $56,900; (b) J. IRVIN, 25th and Moore St., $74,900; (c) and (d) E. H. VARE, 1120 Race St., $94,900 and $109,100; (e) J D. DORNEY, 1204 East Montgomery Ave., $89,500; (f) R. J. & A. PEOPLES, 25th and Callowhill St., $89,150; (g) D. McMAHON, Estate Main and Chelten Ave., $114,740. Bids rejected cleaning streets, Dist. 5. New bids. Noted Nov. 23.

Penn., Reading—City received low bid garbage disposal plant from Pennsylvania Sewerage and Garbage Co., Philadelphia, $300,000. Noted Nov. 30.

Tex., Magnolia Park—(Houston Post Office)—City let contract garbage incinerator to SPARKS CREMATORY CO., Dallas, $4,000.

Mich., Flint—Council let contract garbage disposal plant to UNITED ENGINEERING CO., 327 South La Salle St., Chicago, Ill. Noted Sept. 28.

STREETS AND ROADS

Proposed Work

Maine, Skowhegan—Plans made completing Jackman-Rockwood Rd. About $50,000. State Legislature to appropriate $22,500; Maine Central R.R., $10,000; Somerset County, $7,500. Address County Clk., Skowhegan.

Mass., Waltham—City plans to improve West Dale St. B. Brewer, City Engr.

R. I., Woonsocket—Council plans to pave East School St. and build 2 bridges. About $78,000. F. H. Mills, City Engr.

Conn., Danielson—City plans to pave portion Main St.

Conn., Derby—City plans to improve portion Derby Ave. V. B. Clark, City Engr.

Conn., Manchester—City plans to improve portion Main St

Conn., Rockville—City plans to spend $30,000 new sidewalks.

N. Y., East Rochester—City making plans, soon to vote on bonds for paving; asphaltic macadam or amiesite. About $20,000. R. E. Gaskin, Triangle Bldg., Rochester, Engr.

N. Y., Lockport—Niagara County plans road from Orleans to Niagara. Address County Clk., Lockport.

N. Y., Rochester—Council adopted ordinances to improve portions Ethel St., $4,300; Woodbine Ave., $9,500; Orange St., $24,000; Augustine St. outlet sewer, $7,500. F. T. Ellwood, City Engr.

N. J., Camden—Council plans 100-ft. wide boulevard on Baird Ave. from Forest Hill Park to 27th and Federal St. L. E. Farnham, City Engr.

N. J., Edgewater—See item under "Industrial Works."

N. J., Jersey City—Bd. Blvd. Comrs. rejected bids paving portion boulevard. New bids. C. A. Van Keuren, City Engr.

N. J., Passaic—Council passed ordinance to pave portion Grove St., macadam.

N. J., Wildwood—City receiving bids Jan. 1, cement curbs and gutters. About $20,000. Noted Aug. 17.

Penn., Conemaugh—Cambria County making plans grading and paving. About $50,000. Address County Clk., Ebensburch.

Penn., Mt. Penn—City making plans paving Perkiomen, Fairview, Carsonia Ave. and 23rd St. About $15,000. W H. Dechant & Son, Baer Bldg., Reading, Engr.

Penn., Nanticoke—City making plans paving portion Ridge St. D. Samuels, Engr.

Va., Franklin—City to issue $40,000 bonds to improve streets. W. A. Bristow, Finance Comr.

Va., Luray—Page County adopted resolution to issue $200,000 bonds to build road from Warren to Rockingham County, about 33 mi. Address Clk. Page County, Luray.

Va., Petersburg—See item under "Water-Works."

Va., Richmond—City plans improving portion Roseneath Rd. About $29,870. C. E. Bolling, City Engr.

Va., Salem—Roanoke County, Cave Spring Dist., election Jan. 16 to vote on $125,000 bonds to build 16.16 mi. road. C. D. Denit, County Clk. Noted June 29.

W. Va., Huntington—City receiving bids Dec. 22 paving portion 1st St. A. B. Maupin, City Engr. Noted Aug. 17.

W. Va., Parsons—Tucker County election Dec. 29 to vote on $308,000 bonds to build roads. Address County Clk., Parsons. Noted Sept. 28.

N. C., Mt. Holly—City election Dec. 19 to vote on $5,000 bonds to build sidewalks. W. T. Johnson, Clk.

N. C., New Berne—Craven County plans paving 4½ mi. Trent Rd. and 4½ mi. Vanceboro Rd., brick. Address County Clk., New Berne.

Ga., Statesboro—City to vote in February on bonds to pave streets. W. B. Johnson, City Clk.

Fla., Tampa—Hillsborough County, Wimauma Dist., soon votes on $22,500 bonds to extend Riverview Rd. Address County Clk., Tampa. Noted Nov. 16.

Fla., Tarpon Springs—City election soon to vote on $7,500 bonds to improve streets and parkways.

Ala., Montgomery—City plans to repave North Perry St., brick, asphalt, wood block or bitulithic. S. E. Washburn, City Engr. Noted June 8.

Ala., Moulton—Court Revenue Lawrence County receiving bids Jan. 8 macadam road from Courtland Township south to Landersville Rd., about 5 mi. J. C. Kump, Moulton, Judge Probate.

Ala., Talladega—Talladega County defeated $300,000 bonds to build roads. Noted Oct. 26.

Miss., Laurel—City plans to pave several streets. About $10,000.

Ky., Earlington—City voted $15,000 to improve streets. W. E. Rash, Mayor.

Ky., Jenkins—City plans to repave principal streets.

Ohio, Bexley—(Columbus post office)—Village making plans paving various streets, brick or concrete. Jennings, Lawrence & Lindsay, 509 Hartmand Bldg., Engr. Noted Nov. 30.

Ohio, Canton—Stark County Comrs. plan to spend $250,000 in 1917 for brick, macadam and monolithic paving on county roads. State aid will be obtained to improve Canton-Lisbon Rd.; also plan improving Canton-Canal Fulton Rd., Canton-Navarre Rd., Massillon-Canal Fulton Rd., Robertsville-Minerva Rd., Raff Rd., Harrisburg-New Baltimore Rd., Marlboro-Death Curve Rd., and Lawrence-Canal Fulton Rd. Address County Clk., Canton.

Ohio, Cincinnati—City plans improving Delta and Linwood Ave., granite, $31,414, and asphalt or bitulithic, $29,164. F. S. Krug, City Engr.

Ohio, Cleveland—Cuyahoga County Comrs. making plans widening portion Superior Ave. Address County Clk., Cleveland.

Ohio, Cleveland—City receives bids in January, paving and repaving number streets. About $2,500,000. R. Hoffman, City Engr. Noted Nov. 16

Ohio, Columbus—State Highway Comn., Columbus, receiving bids Dec. 21, highways in portions Brown, Butler, Clinton, Fayette, Hamilton, Harrison, Jefferson and Noble Counties. Clinton Cowen, State Highway Comr.

Ohio, Columbus—Council passed ordinance paving Hay, Fulton, Macon, Taylor, Bismark, Kenworth and Dupont St. H. Maetzel, City Engr.

Ohio, Cuyahoga Falls—City plans to pave North Hampton and Telmitch Ave. and Sackett and Newberry St.

Ohio, East Palestine—Columbiana County receiving bids Dec. 20 for sale of $42,000 bonds to improve Water Bd. and East Palestine Rds. Address County Clk., Lisbon.

Ohio, Hamilton—Butler County Comrs. soon to let contract paving Dixie Rd. F. M. Hammerle, Hamilton, County Engr. Noted Oct. 26.

Ohio, Lorain—Council passed ordinance paving portion 7th Court. C. M. Osborne, City Engr.

Ohio, Marion—Council adopted resolutions to pave portions Mary, Church, Senate and Vine St., South Grant, Washington, Bellefontaine and Hane Ave., 1st, 3rd, 4th and 5th alley south Church St., and 1st alley east Main St. E. S. Hoult, City Engr.

Ohio, Montpelier—City making plans improving streets. G. Champe, Toledo, Engr.

Ohio, New Bremen—City making plans paving Main, Franklin and Pearl St. Contract let in spring. G. Champ, Nasby Bldg., Toledo, Engr. Noted Dec. 7.

Ohio, Ravenna—City receiving bids Dec. 20, paving portion Lake Ave. W. H. Linton, City Engr. Noted Sept. 14.

Ohio, Salem—Bd. Pub. Ser. plans paving. B. M. French, City Engr.

Ohio, Springfield—Council passed ordinance paving portion High St. M. J. Bahin, City Engr.

Ohio, Washington—City soon receives bids sale $18,500 bonds to improve Paint St. B. R. Jacob, City Engr.

Ohio, Youngstown—Council passed ordinance to widen West Federal St. About $225,000. Noted Nov. 9.

Ind., Anderson—Madison County receiving bids Dec. 28 gravel or stone roads in Lafayette, Monroe and Green Township, 7 in all. E. T. Flahavin, Anderson, Audr.

Ind., Bloomfield—Green County receiving bids Jan. 2 macadamized roads in Washington and Richland Townships, 3 in all. G. E. Kidd, Bloomfield, Audr.

Ind., Brownstown—Jackson County receiving bids Jan. 1 tarvia-macadam road in Carr Township. A. Leudtke, Brownstown, Audr.

Ind., Corydon—Harrison County receiving bids Jan. 4 gravel or macadam road on line between Heth and Washington Townships. J. L. O'Bannon, Corydon, Audr. Noted Sept. 14.

Streets and Roads (Continued)

Ind., Corydon—Harrison County receiving bids Jan. 2 gravel or macadam road in Boone Township. J. L. O'Bannon, Corydon, Audr.

Ind., Greencastle—Putnam County receiving bids Jan. 1 roads in Madison, Monroe, Floyd, Jackson and Clinton Townships. J. M. Allen, Greencastle, Audr.

Ind., Greensburg—Decatur County receiving bids Jan. 1 roads in Washington, Clay and Jackson Townships. J. C. Barbe, Greensburg, Audr.

Ind., Greensburg—Decatur County receiving bids Jan. 1 concrete road in Adams Township. J. C. Barbe, Greensburg, Audr.

Ind., Greenfield—Hancock County making plans road improvements. Address County Clk., Greenfield.

Ind., Jeffersonville—Clark County receiving bids Jan. 2 crushed stone road in Charleston Township. G. W. Stoner, Jeffersonville, Audr.

Ind., Logansport—Cass County receiving bids Jan. 2 roads in Bethlehem and Washington Townships. A. P. Flynn, Logansport, Audr.

Ind., Portland—Jay County receiving bids Dec. 27 stone roads in Madison and Jackson Townships. J. Bonifas, Portland, Audr. Noted Apr. 13.

Ind., Rockport—Spencer County receiving bids Jan. 1 road in Ohio Township. J. F. Stocking, Rockport, Audr.

Ind., Spencer—Owen County receiving bids Dec. 30 crushed stone road in Harrison and Montgomery Townships. S. M. Royer, Spencer, Audr.

Ind., Vevay—Switzerland County receiving bids Jan. 2 road in Cotton Township. J. W. Smith, Vevay, Audr.

Mich., Houghton — Bd. Supervs., Houghton County, plans to spend $180,000 for road work in 1917. Address County Clk., Houghton.

Mich., Saginaw—Council to let contract in March paving portion Germania Ave., sheet asphalt. About $15,000. H. H. Eymer, City Engr. Noted Nov. 9.

Ill., Princeton—Bd. Local Impvts. plans 3-mi. paving in spring; also concrete gutters.

Ill., Springfield—City plans paving streets, creosoted block. W. D. Seeley, City Engr.

Wis., Crandon—Forest County to sell $100,000 bonds to be used for repairing highways. C. G. Warnick, Crandon, Audr.

Wis., Dodgeville—Iowa County plans 200 mi. highways. R. W. Gribble, Dodgeville, Audr.

Wis., Eau Claire—Eau Claire County plans 110 mi. concrete roads. About $750,000. J. H. Nygaard, Audr. Noted Dec. 7.

Wis., Lancaster—Grant County plans new highways. E. E. McCoy, Lancaster, Audr.

Wis., Marinette—Marinette County plans to spend about $60,000 to build and repair roads. Address County Clk., Marinette.

Wis., Milwaukee—Bd. Superv. Milwaukee County plans to spend $350,000 for road work in 1917. Address County Clk., Milwaukee.

Wis., Monroe—Green County plans concrete road from city to county farm, about 3 mi. Address County Clk., Monroe.

Wis., Portage—(Official)—City making plans 40,000 sq.yd. paving, 23,000 lin.ft. curb and gutter, brick, concrete or bitulithic. H. V. Tennant, City Engr.

Wis., Richland Center—Richmond County plans election in spring to vote on $500,000 to build roads. W. A. Lawton, Richland Center, Audr.

Wis., Stevens Point—Portage County plans trunk line system highways. A. E. Bourn, Stevens Point, Audr.

Wis., West Allis—Act. Bd. Pub. Wks. receiving bids Dec. 30 improving portion George St. and all avenues between 60th and 67th Ave. E. G. Orbert, City Engr.

Wis., West Bend—Washington County election in spring to vote on $500,000 bonds to build roads. A. Thielman, West Bend, Audr. Noted Nov. 9.

Iowa, Ft. Dodge—Webster County plans to grade 30 mi. road in spring. J. L. Hanrahan, Ft. Dodge, Audr.

Iowa, Independence—City receiving bids Jan. 10, paving about 60 blocks, concrete. Noted Oct. 5.

Iowa, Storm Lake—Buena Vista County receiving bids Dec 20, grading 72 mi. highways. G. K. McCullough, Storm Lake, County Engr.

Minn., Crystal Springs—City plans to spend $20,000 for concrete sidewalks.

Kan., Ft. Scott—Auto Traffic Co. plans hard surface road from Ft. Scott to Pittsburgh, about 32 mi.

Kan., Liberal—City plans to pave business district.

Mo., Joplin—City plans to pave about 5 or 6 mi. streets. J. J. McAfee, City Engr.

Mo., Kansas City—City plans widening Gillham Rd. About $16,000. C. Hall, City Engr.

Mo., Springfield—City plans to spend $13,500 to pave 8,725 sq.yd. on St. Louis St. Bids in spring. O. D. Christman, City Engr.

Ark., Hot Springs—City to resurface Central Ave. About $25,000. G. C. Smith, City Engr.

Ark., Russellville—City votes in February on $140,000 bonds to build 23 mi. macadam highway from Russellville to Hector. H. [illegible] Carter, Engr.

Ark., Walnut Ridge—Lawrence County plans road from Walnut Ridge to Rhea Bridge, about 18 mi. Address County Clk., Walnut Ridge.

Tex., Bonham—State Atty. General's Dept. approved plans of Fannin County to issue $135,000 bonds, Dist. No. 3; $35,000, Dist. No. 12; $25,000 Dist. No. 14. Proceeds to be used to build roads. Address County Clk., Bonham.

Tex., Brownwood—Brown County plans to issue $100,000 bonds to build roads. Address County Clk., Brownwood.

Tex., Burkburnett—City plans paving principal business streets from depot. W. D. Cline, Comr. City Hall.

Tex., Dallas—City plans to pave portions Leonard, 9th, Ann and Watt St. H. Moseley, City Engr.

Tex., Eastland—Eastland County election Dec. 30 to vote on $200,000 bonds to build roads Dist. No. 1 Address County Clk., Eastland. Noted Dec. 14.

Tex., El Paso—City election Dec. 19 to vote on $40,000 bonds to grade and improve streets and alleys. G. Espy, City Engr.

Tex., Houston—City soon receives bids paving portion Washington Ave. About $7,900 E. E. Sands, City Engr. Noted Aug. 31.

Tex., Houston—City plans to pave portion Harrisburg Blvd. E. E. Sands, City Engr.

Tex., McKinney—City soon lets contract 1½ mi. paving.

Tex., San Marcos—Hays County plans election Jan. 6 to vote on $75,000 bonds to build roads Buda Precinct. Address County Clk., San Marcos.

Tex., Stamford—Commercial Club plans to build and repair roads out of Stamford.

Okla., Arapahoe—Custer County election Jan. 15 to vote on $800,000 bonds to build 109 mi. roads to be part State Highway and Ozark Trails Systems. Address County Clk., Arapahoe. Noted Oct. 5.

Okla., Waurika—Jefferson County election Dec. 27 to vote on $27,000 bonds to improve roads. Address County Clk., Waurika.

Okla., Woodward—Woodward County voted $20,000 bonds to improve roads, Liberty Township. Address County Clk., Woodward.

Colo., Loveland—Larimer County plans to surface Greeley-Loveland Rd., part cost to be borne by State Highway Comn. Address County Clk, Ft. Collins.

N. M Albuquerque—City soon receives bids paving portion North 8th and West Central St. About $30,208. E. Ross, City Engr. Noted May 18.

Idaho, Driggs—Teton County plans election to vote on $50,000 bonds to build roads. Address County Clk., Driggs.

Idaho, Heyburn—Park Comrs. soon let contract scenic road into park from north. About $13,000.

Utah, Salt Lake City—Council passed ordinance to pave 8th East St. and 3rd South St., Dist. No. 27. S. Q. Cannon, City Engr.

Ore., Crater Lake—V. G. Steel, U. S. Comr. Crater Lake Park, plans campaign to raise $750,000 for highway about 70 mi. long. If amount is raised same will be used for grading and later plans will be started for paving. About $1,500,000.

Ore., Grants Pass—Josephine County plans to spend $39,916 for road and bridge work in 1917. Address County Clk., Grants Pass.

Ore., Ontario—City plans to resurface road from city to Snaker River Bridge.

Ore., Sheridan—City plans to spend $30,000 paving in spring.

Ore., Tillamook—Tillamook County plans to spend $170,000 to build roads. Address County Clk., Tillamook.

Calif., Beaumont—Riverside County to let contract in spring concrete highways. Address County Clk., Beaumont.

Calif., Calexico—City soon lets contract paving various streets. Noted Oct. 19.

Calif., Los Angeles—Bd. Supervs., Los Angeles County soon lets contract grading and constructing oiled macadam pavement and culverts in Ballona Ave., Main St. in and near El Segundo, Rd. Dist. No. 117; also concrete paving on Azusa Ave., Rd. Dist. No. 90. Address County Clk., Los Angeles.

Calif., Los Angeles—Bd. Superv. Los Angeles County, receiving bids Jan. 2 grading and paving 2.6 mi. Signal Hill Blvd., Panarama Dr., Temple Ave. and Catalina St., macadam, on Los Angeles-Long Beach line of Pacific Electric Ry., 13,700 cu.yd. excavation, 13,728 lin.ft. shaping roadbed, 14,222 lb. reinforcing steel, 7,519 tons disintegrated granite, 1,473 tons macadam, oil, etc. About $11,000. A. M. McPherrin, Los Angeles, Clk.

Calif., Sacramento—(Official)—State voted $15,000,000 bonds to improve highways. Noted Dec. 7.

Calif., San Jacinto—City voted $28,000 bonds to pave 3½ mi. streets.

Calif., Santa Barbara—City plans to improve East Blvd. A. B. Cook, City Engr.

Calif., Ventura—Ventura County receiving bids Dec. 15 paving Somis-Moorhead Park Rd., Div. 8. 7.42 mi. concrete, about 23,170 cu.yd. excavation, 39,187 lin.ft. shaping and rolling roadbed, 7,756 cu.yd. concrete in pavements, 196 cu.yd. concrete in culverts, etc. J. B. McCloskey, Ventura, Clk. Noted Dec. 7.

Calif., Yuba City—Comrs. Yuba County appropriated $5,000 repairing 2 mi. Wyandotte Rd. and 1 mi. Orovile-Bangor Rd. Address Clk., Yuba City.

Que., Lacolle—Provincial Dept. Pub. Wks. plans road from Lacolle to Knowlton. M. Lariviere, Engr.

Ont., Hamilton—See item under "Bridges."

Ont., Toronto—R. C. Harris, Wks. Comr., estimates cost paving portion Davenport Rd. at $30,329.

Bids In and Contracts Awarded

Conn., Hartford—(Official)—F. Valerio, Stamford, Conn., submitted low bid 23,257 ft. native stone macadam highway on Long Ridge Rd., Stamford Township. About $34,000. Noted Nov. 23.

Mass., New Bedford—(Official)—City to improve highways by day labor. G. N. Nye, City Engr. Noted Dec. 7.

N. Y., New York—(Richmond)—(Official) J. E. Donovan, Port Richmond, at $8,754, low bidder improving portion Elliott Ave. Noted Nov. 30.

N. Y., Rochester—City let contract paving Owen St. to F. V. BROTSCH, about $6,301.

N. Y., Syracuse—City let contract paving portion Redfield Pl. to F. J. BAKER, $5,950; Taylor St., G. B. DICKINSON, $4,278.

N. J., Irvington—(Official)—City let contract paving, curbing and sewering portion Ellis Ave. to J. DORER, Irvington, about $23,694, for "Hastings Asphalt Blocks."

N. J., Jersey City—Hudson County Parental Bd. let contract road leading to Parental Home to McCABE BROS., 1205 Blvd., Bayonne, about $6,897.

Penn., Avandole—County let contract road New Garden Township to D. E. O'CONNELL & SONS, about $9,335.

Penn., Nanticoke—City let contract paving portion Main St. to CARADOC REES, 320 East Main St., Nanticoke.

W. Va., Keyser—Mineral County let contract roads New Creek Dist. to H. K. TAYLOR, Hagerstown. About $85,000. Noted July 6.

W. Va., Wheeling—County let contract 5-mi. road to BALL ENGINEERING CO., about $40,000.

N. C., Belhaven—City let contract 1½ mi sidewalks to W. S. McCRADY CO., Charleston, S. C. About $6,000 available.

Fla., Arcadia—City let contract paving to STIDHAM & HUGHES, Tampa, about $139,000; 116,000 ft. combined curb and gutter and 25,000 ft. header to FARGO CONSTRUCTION CO., Jacksonville, 40c. and 18c. respectively. Noted Nov. 30.

Fla., De Land—(Official)—City let contract 31,653 sq.yd. brick paving to WILSON CONSTRUCTION CO. and SOUTHERN CLAY MANUFACTURING CO., De Land; concrete curb, N. N. JACOBS. About $60,000.

Fla., Miami—County let contract extending 12th St., to connect with Tamiami Trail to J. W. WOOD.

Ala., Bay Minette—(Official)—Baldwin County let contract improving portion State Trunk Rd. No. 12 to J. G. BROWN, Montgomery, about $8,000. Noted Nov. 23.

Ala., Centerville—Bibb County let contract portion Centerville-Randolph Rd. to P. H. O'BRIEN, Birmingham. About $10,000. Noted Oct. 26.

Ala., Eutaw—(Official)—Green County let contract grading and draining State Trunk Rd. No. 7 to O'BRIEN CONSTRUCTION CO., Birmingham, $8,019. Noted Nov. 16.

Ala., Gadsden—City let contract paving portions 4th and 5th St. to J. F. MORGAN & CO., Gadsden, about $35,348; concrete work to C. O. DUNCAN, Gadsden, about $6,433. Noted Dec. 7.

Tenn., Benton—Polk County let contract highway over Appalachian Mts. to RILEY-RYAN CO., Chattanooga. About $62,500. Noted Apr. 27.

Tenn., Knoxville—City let contract paving Caswell St., Pruett Pl. and Circle Park to MURRAY CONSTRUCTION CO., Holston National Bank Bldg., about $20,000. Noted Dec. 7.

Tenn., Memphis—(Official)—Shelby County let contract earthwork 10 mi. gravel road across northeast corner De Soto County to F. D. HARVEY & CO., Memphis. Noted Nov. 23.

Ohio, Piqua—City let contract paving portion Washington Ave. to J. M. HENNESY & BROS.; curbing to ZEIGLER & SNYDER.

Ill., Springfield—Bd Local Impvts. let contract paving portion Grand Blvd. to J. E. BRETZ.

Kan., Augusta—(Official)—City let contract paving State St. and 5th Ave. to C. L. BESLER CONSTRUCTION CO., Winfield, about $66,091. Noted Oct. 26.

Kan., Kansas City—Wyandotte County let contract paving 1 mi. Parallel Rd. to W. C. DODSON, 2136 Orville St., 39c. per yd. Noted Nov. 2.

Ohio, Steubenville—City rejected bids grading filtration plant grounds. Noted Nov. 23.

Ohio, Wapakoneta—State Highway Comn. let contract paving Wapakoneta St. to HOWELL & WENTZ.

Ind., Angola—Steuben and DeKalb Counties received no bids Dec. 5, county line road. Noted Nov. 16.

Ind., Decatur—City let contract paving to M. MILLER.

Streets and Roads (Continued)

Ind., Rensselaer—(Official)—Jasper County let contract road in Union Township to I. W. MONEYBUN & SON, Monticello, about $48,524. Noted Nov. 16.

Ind., Terre Haute—County let contract Stevens Rd to J. I. UNISON, Terre Haute, about $6,479. Noted Dec. 7.

Ill., Shelbyville—Shelby County let contract road work to D. E. MURPHY, Pana, about $14,900.

Tex., El Paso—City let contract paving portion West Blvd. and North Santa Fe St. to EL PASO BITULITHIC CO., El Paso.

Wash., Camas—(Official)—City received bids improving portion 4th St from Warren Construction Co., Portland, $12,198; J. A. Shea, Portland, $12,851; United Contracting Co., Portland, $13,964. Noted Nov. 16.

Wash., Everett—Snohomish County let contract paving Bond Rd. No. 30 to M. O'DELL, 707 Security Bldg., about $107,000. Noted Dec. 7.

Calif., Bakersfield—City let contract paving portion 21st St. to CORFIELD & DAVIS, about $6,379.

Calif., Long Beach—City let contract paving portion 6th St. to FAIRCHILD-GILMORE-WILTON CO., Pacific Electric Bldg., Los Angeles.

Calif., Los Angeles—City received bids improving portion 1st St from Bryant & Austin; California-Arizona Construction Co., 1700 East Washington St; Fairchild-Gilmore-Wilton Co., Pacific Electric Bldg. Noted Nov. 23.

Calif., Los Angeles—City rejected bids improving 8th St. About $31,278. H. Hamlin, City Engr.

Calif., Los Angeles—City let contract improving Pembroke Lane to FAIRCHILD-GILMORE-WILTON CO., Pacific Electric Bldg., about $4,376.

Calif., Pasadena—T. C. Breitenstein, Pasadena, submitted low bid 50,700 sq.ft. concrete paving, Arden Rd., at 9.7c. sq.ft.

Calif., San Diego—City let contract paving portion Lewis St. and Ft. Stockton Dr. to FAIRCHILD-GILMORE-WILTON CO., Pacific Electric Bldg., about $24,063. Noted Oct. 19.

Calif., San Francisco—Bd. Pub. Wks let contract improving portion 34th Ave. to O. McHUGH, Russ Bldg., about $15,479.

Calif., San Francisco—City received bids improving Clayton St. from Federal Construction Co., $16,946, and Ransome-Crummey Co., $18,015.

Calif., San Francisco—City let contract paving several streets to MUNICIPAL IMPROVEMENT CO., about $12,634.

Calif., San Francisco—City let contract improving Mariposa St. to J. J. McHUGH, about $4,889.

Calif., Santa Barbara—City let contract improving portion Mission and Santa Barbara St. to MUNICIPAL IMPROVEMENT CO., about $12,634.

Calif., Santa Cruz—City let contract improving King St. to A. P. BRADY, Humboldt Bank Bldg., about $54,317.

Calif., Upland—City received low bid improving portion Mountain Ave. from Crown Construction Co., Culver City, about $26,000.

Calif., Ventura—(Official)—Ventura County let contract paving various bridges to FAIRCHILD-WILTON-GILMORE CO., Pacific Electric Bldg., Los Angeles, about $5,000. Noted Nov. 30.

Calif., Watts—City let contract paving portion Wall and Ann St. and Queen Ave. to E. S. CROSHONG, Box 222, Burbank, $6,311. Noted Dec. 7.

Calif., Whittier—City let contract paving Bright Ave. to MUNICIPAL IMPROVEMENT CO., 803 Macdonald Ave., Richmond.

INDUSTRIAL WORKS

Proposed Work

Vt., East Monkton—(Bristol post office)—Kaolin Works to rebuild plant destroyed by fire.

Mass., Boston—Whitman Real Estate Trust, 131 State St., making plans 3-story auto service station.

Mass., Chelsea—E. A. Rothwell, 39 Sudbury St., Boston, making plans 2 factory buildings.

Mass., Fall River—N. Yamins, 78 Bedford St., making plans 2-story public garage. About $25,000. [illegible] Darling & Son, 56 North Main St., Arch.

Mass., Holyoke—Valley Paper Co. making revised plans 3-story, 60x227-ft. finishing mill. Pellissier & Dibble, 317 Main St., Springfield, Arch.

Mass., Lynn—Butman & Cressey Co. making plans storehouse. D. A. Sanborn, 38 Exchange St., Arch.

R. I., East Providence—Standard Oil Co. plans 2 tanks on Vanity Fair property.

Conn., Bridgeport—American Hardware Stores, Inc., acquired plant Lyon & Grumman Co., Fairfield Ave. and Middle St., and will build addition, also warehouse on Water St. E. F. Von Wettberg, Pres.

Conn., New Britain—Landers, Frary & Clark, Inc., plans 3-story, 73x238-ft. addition.

Conn., New London—United States Shipbuilding Co. plans plant on Thames River.

N. Y., Binghamton—Mollen Transfer Co., Erie R.R. Station, made plans 4-story, 50x125-ft. warehouse, 13-15 Warren St. About $50,000. Moores & Dunford, 10 South La Salle St., Chicago, Arch. Noted June 1.

N. Y., Buffalo—A. B. Schultz, 786 Ashland Ave., made preliminary plans 2-story motor factory. About $10,000.

N. Y., Catskill—Union Mills, Hudson, made plans 4-story addition to mill. About $30,000. C. Haug & Son, Main St., Little Falls, Arch.

N. Y., Elmira—G. W. Peck Co. plans 3-or 4-story warehouse on 7th St. in spring.

N. Y., New York—(Brooklyn)—(Official)—A. Smith, 4307 Broadway, receiving bids, 1-story, 125x150-ft. brick garage, 4352 Broadway. About $40,000. Hurwitz, Landsman & Bartos, Arch.

N. Y., New York—(Manhattan)—D. Levy, c/o H. Young, Arch., 32 Union Sq., making plans 8-story garage. About $75,000.

N. Y., Rochester—Vacuum Oil Co., 904 Exchange St., plans addition. About $15,000.

N. J., Millville—Whitall-Tatum Co. made plans glass factory.

N. J., Newark—Hagerstrom & Chapman Co. made plans 2-story factory at 9 Orchard St. About $10,000. W. J. Fitzsimmons, Arch.

N. J., Pennsgrove—E. I. duPont de Nemours Powder Co. purchased Fenton's Beach property for plant.

Penn., Lock Haven—Lock Haven Auto Co., 13-15 Corning St. plans new garage. About $20,000.

Penn., Marcus Hook—Headley Good Roads Co. making plans 2-story, 75x150-ft. factory and power house. S. Bent, 301 South 30th St., Philadelphia, Vice-Pres.

Penn., Midland—Pittsburgh Crucible Steel Co. plans additions. About $1,000,000.

Penn., Philadelphia—(Germantown)—Atwater-Kent Manufacturing Co. plans plant, 2024-34 Russell St. About $100,000.

Penn., Philadelphia—L. H. Gilmer Co. made plans 2-story, 50x100-ft. factory, Keystone and Cottman St., Tacony. About $30,000. H. G. Eisenbise, Penn Bldg., Arch.

Penn., Philadelphia—Windsor Chocolate Co. making preliminary plans 3-story, 80x116-ft. addition. E. M. Dobeller, 24th and Hamilton St., Secy. W. Steel & Son, 1600 Arch St., Arch. Noted Nov. 30.

Penn., Pittsburgh—Electro Pneumatic Gear Shift Corp., recently organized, plans plant. M. F. Metcalf, Pittsburgh, Pres.

Penn., Pittsburgh—Iron City Electric Co., 711 New Grant St., purchased site, Grant Blvd. and Bedford Ave., warehouse and store building.

Penn., Pittsburgh—Jackson Motor Supply Co. plans 3-story plant, Baum Blvd., South Negley Ave. and Roup St., East End.

Penn., Pittsburgh—E. E. Reick Co. granted permit addition, Forbes St. About $51,000.

Penn., Pittsburgh—X. & W. Wittmer granted permit 3-story garage, 5738 Baum Blvd. About $38,000.

Penn., Williamsport—Cheesman & Elliott, 100 William St., New York, plans factory and storage building on East St.

Md., Baltimore—Baltimore Storage Co. making plans warehouse. About $10,000. Wyatt & Notling, Keyser Bldg., Arch.

Md., Baltimore—Pompeian Co., Coca-Cola Bldg., plans storage warehouse. About $50,000 or $100,000. A. Musher, Pres.

Md., Elkton—Jessup & Moore Paper Co. plans bleach mill. About $500,000.

Va., Hampton—Newcomb Boat Building Co. plans new plant on Sunset Creek. J. H. Hesey, Scotland Neck, N. C., Gen. Mgr.

Va., Lynchburg—M. R. Scott, 709 5th Ave., making plans 2-story, 90x160-ft. abbatoir. About $20,000. Heard, Cardwell & Craighead, Peoples Bank Bldg., Arch.

Va., Martinsville—H. A. Ford & Co. plans cold-storage and ice plant. About $35,000. Pritchard & Henderson, Dudley Bldg., Danville, Arch.

Va., Portsmouth—Two States Package Co. made plans veneer manufacturing plant on Belt Line R.R. E. Potter, Pen Yann, N. Y., Pres. W. N. Diehl, Chamberlaine Bldg., Norwalk, Arch.

W. Va., Parkersburg—Standard Oil Co. plans to improve plant in East End. About $125,000 or $150,000.

W. Va., Wheeling—Wheeling Corrugating Co., Arthington St. and Campbell Ave., granted permit warehouse. About $200,000. Noted Sept. 23.

N. C., Gastonia—Mutual Mills Co., recently organized with $200,000 capital stock, plans mill. C. B. Armstrong interested.

La., New Orleans—Linde Air Products Co., Forty-Second St. Bldg., New York, plans plant in New Orleans.

La., New Orleans—Richardson Aëroplane Corp., organized with $500,000 capital stock, plans plant. F. T. Richardson, Pres.

Tenn., Memphis—Orgill Bros. & Co. plans to enlarge plant. F. Orgill, Pres.

Ky., Louisville—Martha Washington Candy Co. plans factory. C. L. Braucher, Cincinnati, interested.

Ohio, Akron—Northern Ohio Traction and Light Co. received bids about Jan. 1, 1- and 5-story warehouse and electric packing station. About $100,000. F. C. Warner, 718 Hippodrome Bldg., Cleveland, Arch. Noted July 13.

Ohio, Cincinnati—Crown Overall Co. plans plant, 3rd and Plum St. About $250,000.

Ohio, Cincinnati—Kroger Grocery and Baking Co. plans 10-story warehouse, Florence Ave. B. H. Kroger, Pres.

Ohio, Cincinnati—Sextro Manufacturing Co., 6th St. near Freeman Ave., plans plant on Winchell Ave., 6-story, 50x200-ft.

Ohio, Cleveland—Brandt Co., Sheriff St., plans 6-story warehouse, Ontario St. About $300,000.

Ohio, Cleveland—S. W. Emerson Co., 1041 Engineers Bldg., plans warehouse, 3304 Carnegie Ave.

Ohio, Columbus—Fireproof Warehouse and Storage Co., 1018-32 North High St., plans 4- or 5-story warehouse in spring. About $30,000. M. Peterman, Gobey Bldg., Arch.

Ohio, New Philadelphia—Ladel Manufacturing Co., recently incorporated with $50,000 capital stock, plans foundry and machine shop; main building to be 150x250 ft.

Ohio, Norwalk—Maple City Ice Co. made plans 1-story plant. About $25,000.

Ohio, Toledo—United Food Products Co., 1101 Brown Ave., plans addition. About $15,900.

Ohio, Warren—C. G., I. A., C. R. Thomas and C. H. Lewis, former owners Western Reserve Steel Co., plan new plant at Warren.

Ind., Muncie—Whitely Malleable Castings Co. to rebuild factory destroyed by fire with loss of $250,000.

Ind., Richmond—Atlas Underwear Co. plans addition.

Mich., Bay City—F. H. Cash Co., Inc., 15th and Water St., purchased site in Water St. for 2-story plant.

Mich., Detroit—P. Esper granted permit, factory on Ferndale St. About $14,000. O. C. Gottesleben, 2224 Dime Bank Bldg., Arch.

Mich., Detroit—Gabriel Reinforcement Co., 1023 Penobscot Bldg., granted permit brick factory, 589-601 Bellevue Ave. About $18,000.

Mich., Detroit—Michigan Wire Cloth Co., 500 Howard St., granted permit factory, 113 Wabash St. About $30,000.

Mich., Detroit—R. O'Neill, 227 LeMay Ave., granted permit factory on East Blvd. About $18,000. R. H. Marr, 1204-6 Kresge Bldg., Arch.

Mich., Grand Haven—Eagle-Ottawa Leather Co. making plans enlarging plant. B. E. Parks & Son, Engr.

Mich., Grand Rapids—Grand Rapids Piano Case Co., Godfrey Ave., S. S., made plans 2 additions. Wernette-Bradfield-Mead Co., Arch.

Mich., Lansing—Duplex Truck Co., recently organized with $1,000,000 capital stock, has taken over plant of Duplex Power Car Co., of Charlotte, and will remove business to Lansing, where new plant will be constructed. H. M. Lee, Pres. and Gen. Mgr.

Ill., Bloomington—Corn Belt Creamery Co. plans plant.

Ill., Chicago—Chicago Flexible Shaft Co., 608 North La Salle St., making plans factory, 56th Ave. and 12th St. About $180,000. S. N. Crowen, 30 North La Salle St., Arch.

Ill., Chicago—Chicago Steel and Wire Co., 1123 West 37th St., purchased site 103rd St. and Torrence Ave., plant. About $40,000.

Ill., Chicago—W. D. Gibson Spring Co., Huron and Kingsbury St., purchased site, Clybourn Ave. and Willow St., new plant.

Ill., Waukegan—Northern Brass Manufacturing Co. making plans addition to plant, Madison St.

Ill., Waukegan—Standard Oil Co., Clayton and Spring St., plans plant. About $60,000 or $70,000.

Wis., Beach—Muscoda post office)—Chicago & Northwestern Ry. plans roundhouse. W. H. Finley, Jackson Blvd. and Franklin St., Chicago, Ch. Engr.

Wis., Milwaukee—Progressive Metal Co., Barclay and Washington St., plans 2-story, 40x160-ft. addition.

Wis., Milwaukee—Rundle Manufacturing Co., 27th and Wahl St., plans addition.

Wis., Milwaukee—Stegeman Motor Car Co., 606 Linus St., plans 79x190-ft. addition. About $30,000.

Wis., Milwaukee—Wollaeger Manufacturing Co., 28 Juneau Ave., to rebuild factory destroyed by fire. About $15,000.

Minn., Minneapolis—G. A. Clark & Son, 225 3rd St., N., plans warehouse and office building, 3rd St. and 9th Ave. About $100,000.

Minn., Minneapolis—Skellet & Co., 201 South 5th St., plans 10-story warehouse, 251 6th Ave., S. About $150,000.

Minn., St. Paul—Griffin Wheel Co., Phalen and Stillwater Ave., plans addition. About $100,000.

Kan., Argentine—Sinclair Oil Corp., Kansas City, purchased site, refinery and tank car repair shops. F. H. Sinclair, Pres.

Kan., Great Bend—Atchison, Topeka & Santa Fe Ry. to enlarge yards and build new roundhouse. C. F. W. Felt, Chicago, Ch. Engr.

Neb., Columbus—Klaws Canning Co. plans factory. About $25,000.

Neb., Omaha—Paxton & Gallagher Co., wholesale grocers, plans 7- or 8-story addition. C. H. Pickens, Gen. Mgr.

Industrial Works (Continued)

Neb., Omaha—Waterloo Creamery Co. made plans plant, 16th and Pierce St. About $125,000. C. A. Berger, Minneapolis, Arch. Noted Nov. 23.

N. D., Grand Forks—Northern Packing Co. receives bids about Feb. 1, packing plant. About $200,000. Gardner & Lindberg, 140 South Dearborn St., Chicago, Arch.

Wyo., Worland—Wyoming Sugar Co. plans plant in Big Horn Valley. About $1,000,000. J. Eccles, Ogden, Utah, and G. S. Crosby, Billings, Mont., interested.

Mo., Joplin—J. W. McAllister, Marceline, plans 2-story brick creamery. About $10,000.

Mo., Kansas City—H. D. Lee Mercantile Co., Salina, Kan., plans 3-story, 117x140-ft. warehouse.

Mo., Kansas City—North American Oil and Refining Corp. plans plant in Sheffield Blue Valley Dist. About $100,000.

Mo., Oak Hill—(St. Louis post office)—L. D. LeGear Medicine Co., 713 Howard St., plans new plant between Beck and Tholozan Ave.

Mo., St. Louis—St. Louis Independent Packing Co., 3857 Chouteau Ave., plans 2-story cooperage factory. About $25,000 or $50,000. H. Karuse, 3857 Chouteau Ave., Arch.

Ark., Ft. Smith—Ft. Smith Glass and Mirrors Co. making plans 1-story, 50x300-ft. plant. About $10,000. A. Klingenschmidt, Arch.

Tex., Houston—Linde Air Products Co., Forty-Second St. Bldg., New York, plans plant in Houston.

Tex., Houston—Texas Farmers Union plans mammoth warehouse on Houston ship channel. H. N. Pope, Pres.

Tex., Sherman—G. B. R. Smith Milling Co. plans 6-story, 40x100-ft., rein.-con. plant on East Lamar St. About $125,000.

Colo., Morrison—(Mt. Morrison post office)—Great Western Portland Cement Co., Denver, plans plant near Morrison. About $750,000. C. Boettcher, Pres., Denver & Salt Lake R.R., interested.

Utah, Ogden—Smith Bedding Co., East Canyon Rd., to rebuild plant destroyed by fire with loss of $35,000.

Wash., Port Angeles—Whalen Bros., Mills Creek, B. C., and J. Tyson, Pres., Puget Sound Mills and Timber Co., Port Angeles, plans sulphide paper plant on Ediz Hook. About $750,000.

Wash., Tacoma—Carstens Packing Co. to rebuild plant destroyed by fire with loss of $200,000.

Wash., Tacoma—Washington Shipbuilding Co., recently incorporated with $500,000 capital stock, plans plant. About $300,000. W. G. Hellar and W. Jones, Tacoma, interested.

Wash., Wenatchee—Earl Fruit Co. plans warehouse. J. DiGiorgio, Pres.

Ore., McMinnville—McMinnville Products Co., recently incorporated with $50,000 capital stock, plans canning plant. G. W. Evans and W. T. Macy interested.

Ore., Portland—Chevrolet Motor Co. of Michigan plans assembling plant and factory on Savier St. About $100,000.

Ore., Whitney—Hillgard Lumber Co. to rebuild sawmill destroyed by fire with loss of $20,000.

Calif., Huntington Park—Warman Steel Casting Co., 650 South Los Angeles St., Los Angeles, making plans new plant. About $100,000. Peoples & Chaney, 912 Haas Bldg., Los Angeles, Arch. Noted Nov. 23.

Calif., Los Angeles—Arrowhead Spring Co. making plans, bottling plant, Washington St. and Compton Ave. About $150,000. F. W. Handschy, Mgr.

Calif., Redding—Phœnix Steam Laundry plans 1-story addition. About $15,000. I. J. Johnson, Secy.

Calif., San Bernardino—Atchison, Topeka & Santa Fe Ry. to rebuild shops and terminal destroyed by fire. About $750,000. C. F. W. Felt, Railway Exchange Bldg., Chicago, Ch. Engr.

Ont., Port Arthur—A. G. McIntyre, Toronto and Montreal, plans pulp mill, Bare Point. About $1,000,000.

Bids In and Contracts Awarded

Mass., Fall River—Fall River Laundry Co., 112 Hartwell St., let contract addition to BEATTIE & CORNELL, 33 North Quarry St. About $11,000.

Mass., Medford—T. L. Codiger let contract garage to J. H. BRODERICK, about $55,000.

Mass., Rockland—Emerson Shoe Co. let contract factory to G. HOWARD & SONS CO., 633 Warren Ave., Brockton, about $40,000.

Mass., Springfield—W. Carter Co., Morris St., let contract 3-story addition to E. T. DAVIS & SON, Springfield.

N. Y., Buffalo—United States Alloys Co., Inc., 150 Nassau St., New York, let contract manufacturing plant to LACKAWANNA BRIDGE CO., Bell and Abbey St., Buffalo. About $200,000. Noted Nov. 23.

N. Y., New York—(Brooklyn)—A. Aaron, Inc., 335 Johnson Ave., let contract alterations and additions to abbatoir to C. E. WARD, 417 East 34th St., Manhattan.

N. Y., New York—(Manhattan)—R. J. Hahn and W. Lang, 148 East 83rd St., let contract garage to STANDARD CONCRETE STEEL CO., 613 East 31st St. About $45,000. Noted Sept. 28.

N. Y., New York—(Borough of Queens)—(Glendale)—Glendale Ice Consumers' Co., c/o H. Burkhardt, 246 St. Nicholas Ave., Brooklyn, let contract plant to W. HAFNER, Glendale. About $30,000.

N. Y., New York—(Borough of Queens)—Oakes Manufacturing Co., Steinway, Long Island City, let contract 2-story, 32x200-ft. factory to TURNER CONSTRUCTION CO., 11 Broadway, Manhattan.

N. J., Camden—Victor Talking Machine Co. let contract kiln building to IRWIN & LEIGHTON, 126 North 12th St., Philadelphia. About $200,000. Noted Nov. 2.

N. J., Edgewater—(Official)—General Chemical Co. let contract garage, also paving roadway, to STEWART ENGINEERING CORPORATION, 17 Battery Pl., New York.

N. J., Jersey City—Davis-Bourneville Co. let contract 2-story addition to J. N. GILL & CO., 1215 Filbert St., Philadelphia.

N. J., Newark—C. Burroughs, 141 Commerce St., let contract machine shop to E. M. WALDRON, INC., 207 Market St. About $17,000.

N. J., Paterson—Paterson Industrial Development Co., Chamber of Commerce, let contract 4-story, 75x275-ft. factory on Gray St. to CRAMP & CO., 25 East 26th St., New York. About $145,000. Noted Nov. 30.

Penn., Chester—Consumers' Ice and Coal Storage Co. let contract warehouse to FREUND CONSTRUCTION CO., Bulletin Bldg., Philadelphia, about $35,000. Noted Aug. 17.

Penn., Chester—Sun Shipbuilding Co. let contract 5 buildings at plant to BARCLAY, WHITE & CO., 1530 Chestnut St., Philadelphia. About $120,000.

Penn., Philadelphia—(Bridesburg)—Abrasive Materials Co. let contract crushing plant to J. R. WIGGINS & CO., Heed Bldg., about $10,000. Noted Nov. 30.

Penn., Philadelphia—Supplee Alderney Dairy Co., 1118 Jefferson St., let contract 3-story addition to J. N. GILL & CO., 1215 Filbert S., about $27,000. Noted Nov. 30.

Penn., Pittsburgh—(Official)—D. L. Clark Candy Co. let contract addition to FABER ENGINEERING AND CONSTRUCTION CO., Bessemer Bldg., Pittsburgh. About $50,000. Noted Oct. 12.

Penn., Pittsburgh—Standard Sanitary Manufacturing Co. let contract 3 enameling furnaces to FABER ENGINEERING AND CONSTRUCTION CO., Bessemer Bldg.

Penn., Williamsport—Standard Wood Pipe Co., foot Rose St., let contract factory to HARMON BROS., Center Pl. and South St. About $15,000. Noted Nov. 23.

Penn., Williamsport—Williamsport Wire Rope Co. let contract addition to J. GEHRON, 1329 Ann St. About $70,000. Noted July 20.

Md., Sparrows Point—Bethlehem Steel Co. let contract improvements and additions to IRWIN & LEIGHTON, 126 North 12th St., Philadelphia. About $2,000,000. Noted Nov. 30.

W. Va., Cabin Creek—(Coalburg post office)—Cabin Creek Refining Co., controlled by Ohio Cities Gas Co., Columbus, let contract plant to PUTNAM & FOREMAN, about $200,000. Noted Dec. 7.

W. Va., Huntington—Peerless Overall Co., 20th St. and 2nd Ave., let contract factory to H. SMITH, 319 R. & P. Bldg. About $25,000. Noted Jan. 13.

W. Va., Wheeling—Whitaker-Glessner Co. let contract factory on Wetzel St. to FOUNDATION AND RIVERSIDE BRIDGE CO. About $200,000.

N. C., Leaksville—Iron City Bed Spread Mill and Thread Mills Co. let contract mill to J. A. JONES, Leaksville. About $200,000. Noted June 29.

Ohio, Bellefontaine—Summit Milk Co., Logan House Blk., let contract creamery to F. L. HUTCHINGS. About $10,000. Noted Nov. 9.

Ohio, Cleveland—Cleveland Twist Drill Co., Lakeside Ave. and East 49th St., let contract addition to NIXON & CASSIDY CO., about $18,000. Noted Dec. 7.

Ohio, Cleveland—Elwell-Parker Electric Co., 4220 Hamilton Ave., let contract addition to BOLDT-LOW CONSTRUCTION CO., 1108 Swetland Bldg. About $30,000. Noted Dec. 7.

Ohio, Cleveland—Globe Machine and Stamping Co., 1230 West 76th St., let contract warehouse to H. G. SLATMEYER CONSTRUCTION CO., 203 Lakeside Ave. About $15,000.

Ohio, Cleveland—Lamson-Sessions Co., 2188 Scranton Rd., let contract additions to BOLDT-LOW CONSTRUCTION CO., 1108 Swetland Bldg., about $32,000. Noted Dec. 7.

Ohio, Cleveland—Willard Storage Battery Co. let contract factory, 280 East 131st St., to G. W. FEAGA CONSTRUCTION CO., Citizens Bldg., about $85,000. Noted Oct. 12.

Ohio, Toledo—Grasser Motor Co., 1101 Madison Ave., let contract salesroom and service station to H. J. SPIEKER CO., 409 Michigan Ave. About $50,000. Noted Aug. 24.

Ind., Evansville—Evansville Packing Co. let contract cold-storage plant to SCARBOROUGH-DAVIES CO., Evansville. Noted Sept. 16.

Mich., Detroit—General Motors Corporation of Delaware let contract 200x729-ft. building, Holbrook Ave. and Dequindre St., to W. E. WOOD CO.

Mich., Marquette—Piqua Handle Manufacturing Co. to build 2-story, 65x325-ft. factory by day labor. Wernette, Bradfield & Mead, Houseman Bldg., Grand Rapids, Mich., Arch. Noted Aug. 3.

Ill., Averyville—(Peoria post office)—Illinois Paper Mill let contract 2-story addition to W. M. ALLEN & SONS, Peoria.

Ill., Chicago—Chicago Tuberculosis Institution, 8 South Dearborn St., let contract laundry and boiler house, Crawford and Bryn Mawr Ave., to W. ADAMS CO., 209 South La Salle St. About $35,000.

Ill., Chicago—J. S. Kirk Co. let contract factory, 1601-19 Fleetwood Ave., to G. A. FULLER CO., 140 South Dearborn St. About $750,000. Noted Aug. 31.

Ill., Chicago—A. Schwin Co., 1718 North Kildare Ave., let contract factory to MENKE-THIELBERG CO., Park Ave. and South Wood St., about $15,000.

Ill., Chicago—Stromberg Motor Service Co., 66 East 25th St., let contract 6-story factory to G. THOMSON & SON CO., 30 North La Salle St. About $65,000.

Ill., Chicago—United States Brewing Co., First National Bank Bldg., let contract plant to SCOWN BUILDING CO., 1357 Cortland St. About $75,000.

Ill., Chicago—Zeitler-Lamson Truck Co., 4638 West Madison St., let contract addition to E. C. CLAYSON, 1307 North Harding Ave. About $15,000.

Ill., DeKalb—Natures Rival Co., 1028 West Van Buren St., let contract factory to JENSEN & STEENHILL, 105 South Dearborn St., Chicago. About $15,000. Noted Sept. 28.

Ill., Kankakee—West Kankakee Stove Co. let contract addition to SUMNER-SOLLITT CONSTRUCTION CO., Pullman Bldg., about $90,000.

Ill., Peoria—Nichols & Shepard Co., 419 North Water St., let contract warehouse and office building to F. HARBERS & SONS, 900 Fisher St. About $40,000.

Wis., Delavan—Bradley Knitting Co. let contract addition to C. B. DANIELSON, 638 Mineral St., Milwaukee, about $15,000. Noted Nov. 16.

Wis., Green Bay—Green Bay & Western R.R. let contract grain elevator to BURRELL ENGINEERING AND CONSTRUCTION CO., 323 South La Salle St.

Wis., Milwaukee—J. M. Riebs, 409 Mitchell Bldg., let contract new flour mill to F. LUENZMANN CO., 1912 Prairie St.

Wis., Wausau—Marathon County let contract slaughter house and cold-storage plant to F. KRAUSE, 1018 3rd St.

Iowa, Des Moines—Ford Motor Co., Detroit, let contract plant, 18th St. and Grand Ave., to J. C. MARDIS CO., Des Moines. About $600,000. Noted Aug. 17.

Minn., Anoka—Federal Cartridge and Machinery Co., Inc., let contract factory to J. H. BROWN CO., 511 South 3rd St., Minneapolis. About $20,000. Noted Oct. 5.

Minn., Duluth—Bridgman & Russell Co. let contract creamery, West Michigan St., to FARNUM BROS., Minneapolis, about $215,000. Noted Sept. 14.

Minn., Duluth—Fountain Faucet Co., 61st Ave., let contract factory to BERQUIS BROS., about $14,000. Noted Dec. 7.

Minn., Minneapolis—Maxwell Motor Sales Co., Detroit, let contract assembling plant to HAGLIN STAR CO., Lumber Exchange. About $250,000.

Minn., Minneapolis—C. I. Morey, 1904 North Washington Ave., let contract garage to CARLSTED BROS., 300 North 20th Ave. About $25,000.

Minn., St. Paul—Tri State Land Co., Soo Bldg., let contract warehouse to T. C. VANDANAKER, 1122 Merchants National Bank Bldg. About $125,000. Noted Oct. 19.

Minn., Warren—Warren Machine and Iron Works let contract addition, Fletcher Ave. and Minnesota St., to G. EKBLAD.

Kan., Hutchinson—Four S Razor Co. let contract factory on Ave. A to M. C. FOY CONSTRUCTION CO., about $30,000. Noted Nov. 23.

Kan., Wichita—Mid Continent Tire Manufacturing Co. let contract plant to G. H. SEIDHOFF CONSTRUCTION CO., 392 Finance Bldg., Kansas City, Mo. About $60,000. Noted Apr. 13.

Neb., Omaha—D. D. Rullman, c/o Commercial Club, let contract factory, 29th St. and Belt Line R.R., to G. RUNDBERG, 615 Paxton Blk. About $10,000. Noted Dec. 7.

N. D., Carrington—Standard Oil Co. let contract distributing plant to W. H. CARSON, New Rockford. About $50,000.

Okla., Guthrie—Atchison, Topeka & Santa Fe Ry. let contract roundhouse to NELSON CO., 614 South Michigan St., Chicago.

Okla., Muskogee—Missouri, Kansas & Texas Ry. let contract shops and roundhouse to J. J. RUNNEY. About $160,000. Noted Oct. 12.

Utah, Ogden—Western Foundry and Machine Co., Lincoln Ave. and 23rd St., let contract plant to JACKSON & LEVEDAHL, about $10,000.

Calif., Los Angeles—Los Angeles Union Terminal Co. let contract first unit terminal, 7th St. and Central Ave., to WURSTER CONSTRUCTION CO., Los Angeles. About $2,500,000. Noted Aug. 24.

FEDERAL GOVERNMENT WORK

Proposed Work

R. I., Newport—Buildings—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Dec. 26, 3 buildings at Naval Hospital. Noted Nov. 16.

N. J., East Orange—Post Office—J. A. Wetmore, Act. Superv. Arch., Terasury Dept., Washington, D. C., rejected bids. New bids. Noted Dec. 7.

Del., Wilmington—Excavation—U. S. Engr. Office, Wilmington, receiving bids Dec. 29, excavating inland waterway between Rehoboth Bay and Delaware Bay, Lewes Canal, Del.

D. C., Washington—Gears—Dept. Interior, U. S. Rec. Ser., Washington, receiving bids Dec. 26, 9 pairs c.-i. skew bevel gears for gate stands, Rio Grande Project, New Mexico-Texas.

Tenn., Memphis—Barges—U. S. Engr. Office, Memphis, receiving bids Dec. 21, 3 steel sand barges, Nos. 1601 to 1603. (See adv.)

Mich., Detroit—Boilers—Lighthouse Inspector, Detroit, receiving bids Dec. 26 for Lighthouse Tender "Marigold."

S. D., Rosebud—Buildings—Dept. of Interior, Office Indian Affairs, Washington, D. C., rejected bids, Rosebud School. New bids. Noted Oct. 26.

Calif., San Francisco—Dredging—U. S. Engr. Office, Custom House, San Francisco, receiving bids Dec. 27, Oakland Harbor, Calif.

Calif., Vallejo—Cranes—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Dec. 16, 2 fitting-out cranes at Navy Yard, Mare Island, Calif. Noted Nov. 30.

Panama—Miscellaneous Supplies—Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Dec. 18, Circular No. 2093.

Panama—Miscellaneous—Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Dec. 27, Circular No. 1106.

Alaska, Juneau—Alaska Rd. Comn., Valdez, has $750,000 available road work in 1917. Plans include steel bridge over channel between Douglas Island and Juneau, 3 units each costing $100,000. J. C. Mahaffy, Engr.

Bids In and Contracts Awarded

R. I., Melville—Torpedo Storehouse—Bureau Yards and Docks, Navy Dept., Washington, D. C., let contract, Naval Station, to MILLIKEN BROS., 111 Broadway, New York, $13,665. Noted Nov. 16.

Conn., Rockville—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., let contract to WESTCHESTER ENGINEERING CO., White Plains, N. Y., $45,913. Noted Nov. 30.

N. Y., New York—Crane—Bureau Yards and Docks, Navy Dept., let contract 20-ton locomotive crane, Navy Yard, to INDUSTRIAL WORKS, Bay City, Mich., $11,500. Noted Nov. 9.

N. Y., New York—Dredging—Bureau Yards and Docks, Navy Dept., rejected bids, in connection with Navy Yard. Noted Nov. 16.

N. Y., New York—Dredging—U. S. Engr. Office, Army Bldg., New York, received low bid Nov. 28, in Newtown Creek, from Morris & Cumings Dredging Co., 17 State St., New York, 55c. cu.yd. Noted Nov. 16.

N. Y., New York—Dredging—U. S. Engr. Office, Army Bldg., let contract, Hudson River Channel, to E. BERGMAN, Boston, Mass., $370,562. Noted Dec. 7.

N. Y., Tompkinsville—Bell Buoys—Lighthouse Inspector, 3rd Dist., Tompkinsville, let contract 8 bell buoys to UNION BOILER AND MANUFACTURING CO., $5,000.

Penn., Philadelphia—Dredging—U. S. Engr. Office, Philadelphia, let contract dredging Delaware River, Philadelphia Harbor, Sects. A and B, to RICKARD DREDGING CO., Real Estate Trust Bldg., Philadelphia, $16,852. Noted Nov. 9.

Penn., Philadelphia—Dredging—U. S. Engr. Office, Philadelphia, let contract dredging Delaware River, Philadelphia Harbor, Sects. K, L and M, to AMERICAN DREDGING CO, Marine and Mercantile Bldg., Philadelphia, $717,750. Noted Nov. 23.

Penn., Philadelphia—Dredging and Excavation—U. S. Engr. Office, Philadelphia, let contract, Delaware River, Philadelphia Harbor, to GREAT LAKES DREDGE AND DOCK CO., 17 Battery Pl., New York, $760,500.

Va., Norfolk—Buildings—Bureau Yards and Docks, Navy Dept., let contract student officers' quarters, Navy Yard, to J. H. NOLAN CONSTRUCTION CO., Munsey Bldg., Washington, $42,120. Noted Nov. 23.

Va., Norfolk—Dredging—U. S. Engr. Office, Norfolk, let contract, from Norfolk to Beaufort Inlet, N. C., to ATLANTIC GULF AND PACIFIC CO., 13 Park Row, New York, $720,000. Noted Oct. 19.

W. Va., Wheeling—Steel, Castings, Etc.—U. S. Engr. Office, Wheeling, let contract metal work for Dams Nos. 23, 25 and 27, Ohio River to INDEPENDENT BRIDGE CO., 829 Beaver St., Pittsburgh, Penn.; TROLLEY & FORGE CO., J & J. B. MILHOLLAND CO., 714 5th Ave., Pittsburgh; S. B. HARDING CO. Noted Nov. 23.

N. C., Newbern—Motor Dredge—U. S. Engr. Office, Wilmington, N. C., received low bids Dec. 1 from New York Yatchet L. & E. Co., Morris Heights, N. Y., $13,975; E. H. & J. A Meadows Co., Newbern, $11,270; Great Lalkes Boat Building Corporation, Milwaukee, Wis., $16,239.

S. C., Charleston—Buildings—Bureau Yards and Docks, Navy Dept., Washington, D. C., received low bids Dec. 4, radio buildings, tower and masts at Navy Yard, from Simmons—Mayrant Co., Charleston, $19,873; Charleston Engineering and Contracting Co., Charleston, $22,289; Newport Contracting and Engineering Co., Newport News, Va., $20,614 Noted Nov. 23.

La., New Orleans—Levee Work—U. S. Engr. Office, New Orleans, let contract Lafourche Levee, Wildswood, to O. O. OGDEN, Baton Rouge, $46,751. Upper and Lower Avondale bids rejected. Noted Nov. 16.

La., New Orleans—Projectile Hoists—U. S. Engr. Office, New Orleans, let contract to G. F. MOTTERS' SONS, York, Penn., $6,540.

La., New Orleans—Repairs—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., let contract Quarantine Station to L. E. ALEXANDER, New Orleans, $12,300.

Ky., Louisville—Lock Gates—U. S. Engr. Office let contract upper and lower mitering lock gates for Lock No. 41, Ohio River, to INDEPENDENT BRIDGE CO. OF PITTSBURGH, 829 Beaver Ave., Pittsburgh, $116,593. Noted Oct. 12.

Ill., Rockland—Dams and Shore Protections—U. S. Engr. Office, Post Office Bldg., let contracts constructing and repairing, (a) between Bellevue and Sabula, (b) Beattys Crossing and Keithsburg, Ill., (c) Quincy, Ill., and Hannibal, Mo., and Hamburg, Ill., (d) Hamburg and Grafton, Ill., to (a) KIRSCHNER CONTRACTING CO., Dubuque, Iowa, $71,250; (b) BEARS SAND AND GRAVEL CO., Davenport, $71,250; (c) A. V. FETTER, Quincy, Ill., $71,250; (d) RUST & SWIFT, St. Louis, Mo., $118,750. Noted Sept. 28.

Neb., Chadron—Post Office and Courthouse—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., received low bids Dec. 7, (a) limestone, (b) sandstone, from McManus & Tarnoski, St. Paul, Minn., (a) $102,600, (b) $110,600; W. D. Lovell, Minneapolis, Minn., (a) $109,200; C. E. Goodhand, Ord, Neb., (a) $109,500, (b) $109,500. Noted Nov. 2.

Mont., St. Ignatius—Canal—U. S. Rec. Ser. received low bids, Flathead Project (a) Schedule 1, (b) Schedule 2, (c) Schedule 3, (d) Schedule 4, from A. L. Markhus, Dixon, Mont., (a) $18,260, (b) $15,852, (c) $20,270, (d) $19,951; Mendenhall Bird & Co., Springville, Utah, (b) $12,652, (c) $16,260, (d) $19,457; Long & Kelley, Polson, Mont., (b) $14,212. Noted Nov. 2.

Tex., Sabine Pass—Jetty Work—U. S. Engr. Office, Dallas, let contract, Sabine Pass, to D. M. PICTOR & CO., Galveston, $272,789. Noted Dec. 7.

Tex., Yoakum—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., let contract to ALGERNON BLAIR, Montgomery, Ala., $44,135. Noted Nov. 30.

Idaho, Twin Falls—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., received low bids Dec. 6, (a) faced with brick and limestone, (b) faced with brick and sandstone, (c) faced with limestone, (d) faced with sandstone, from W. D. Lovell, 1415 East 8th St., Minneapolis, Minn., (a) $81,300, (b) $80,700, (c) $84,750, (d) $84,150; C. R. Aldrich, 3rd and Jefferson Ave., Seattle, Wash., (a) $82,000, (b) $79,700, (c) $85,900, (d) $81,900; Welsh Bros. & Hannaman, Kalispell, Mont., (a) $83,338, (b) $82,589, (c) $87,146, (d) $86,452. Noted Oct. 26.

Wash., Seattle—Dredging—U. S. Engr. Office, Seattle, let contract, Lake Washington Ship Canal, to ERICKSON CONSTRUCTION CO., Downs Blk., Seattle, $109,825. Noted Nov. 16.

Calif., San Francisco—Crane—Bureau Yards and Docks, Navy Dept., Washington, let contract locomotive crane, Naval Coal Depot, to LINK-BELT CO., 39th and Stewart Ave., Chicago, Ill., $11,200. Noted Nov. 20.

Calif., Tiburon—Dredging—Bureau Yards and Docks, Navy Dept., let contract, Naval Coal Depot, Tiburon, to PACIFIC CONSTRUCTION, DREDGING AND RECLAMATION CO, 112 Market St., San Francisco. Noted Nov. 16.

Panama—Sewer Pipe—E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, D. C., received low bids Dec. 4, delivering at Colan (a) 2,500 lin.ft. 30-in. vitrified, (b) 2,500 lin.ft. 36-in., from Clearfield Sewer Pipe Co., (a) $5 per ft., (b) $7; Evans & Howard Fire Brick Co., (a) $5.74 and $5.94, (b) $8.20 and $8.45; L. W. May, (a) $2.87, (b) $4.41. Noted Nov. 30.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., Albany—(Official)—Barge Canal Work—W. W. Wotherspoon, State Supt. Pub. Wks., Capitol, receiving bids Dec. 27 raising highway bridge over Mohawk River at Schenectady, Contract No. 145. About $5,092.

Fla., Ocala—Canal—Citizens plan canal to connect Silver Springs.

Ky., Paducah—Reclamation—McCracken County made plans draining Mayfield Creek to reclaim 40,000 acres. About $280,000. J. E. Johnson, Paducah, County Engr. Noted July 6.

Ind., Brownstown—Ditch—Jackson County receiving bids Dec. 18 dredge ditch and beanch known as Lauster Ditch, Hamilton Township. S. Carr, Supt. Constr. Address County Clk., Brownstown.

Ind., Decatur—Ditch—Adams County appointed P. L. Macklin, Supt. of Constr., of Borum Run Drain.

Ind., Ft. Wayne—(Official)—Ditch—Allen County receiving bids Dec. 19 main ditch at new farm to be drainage outlet for new farm, extending along township line between Eel River and Perry Townships. W. Johnson, Ft. Wayne, Audr.

Ind., Winchester—Ditch—N. W. Ferguson, Ridgeville, receiving bids Dec. 20, Lewis H. Hotmire et al Ditch, Ward Township, Randolph County. J. W. Hindsley, Winchester, Comr.-in-charge.

Ill., Woodstock—(Official)—Drainage—Coon Creek Drainage Comrs., Dairymen's State Bank, Marengo, receiving bids Dec. 20 tile, bulkheads, inlet and silt basin and material for main open ditch and branches. About $73,126. A. L. Webster, Wheaton, Engr. Noted Oct. 5.

Iowa, Sac City—Drainage—Sac and Buena Vista Counties receiving bids Dec. 22. Project includes 4,300-ft. open ditch cleanout, 210 ft. 30-in. tile and 14 cu.yd. concrete bulkheads. Address E. W. Moyer, Sac City.

Minn., Luverne—Ditch—W. J. Wolstencroft, Engr., Fulda, estimates cost of Drainage Ditch No. 3, Springwater Township, Rock County, at $20,800.

Minn., Moorhead—Ditch—Clay County receiving bids Dec. 19 Ditch No. 1. About $12,000. Address County Clk., Moorhead. Noted Nov. 23.

Minn., Moorhead—Ditch—Clay County receiving bids Dec. 19 Ditch No. 40. About $30,000. A. O. Houglum, Moorhead, Audr. Noted Nov. 2.

Minn., Red Lake Falls—Drainage—Red Lake, Clearwater, Polk, Koochiching, Marshall, Pennington and Marshall Counties plans to straighten and deepen Red Lake River, from outlet of lakes to Thief River Falls to drain land in 7 counties; also to build retaining dam at outlet of lakes. About $300,000 cost to be borne by power interests, river and harbor interests and State Minnesota. J. A. Duffy, Red Lake Falls, and O. L. Dent, Bemidji, interested.

N. D., Milnor—Drainage—Sargent County Drain Bd. plans drain to empty into Wild Rice River. Address County Clk., Milnor.

Calif., El Centro—Irrigation—Imperial Irrigation Dist. receiving bids Dec. 18, (revised plans), excavating canals, 6,000 ft. long, 600,000 cu.yd. in U. S. and 2,200 ft. long, 443,000 cu.yd. in New Mexico. Address Clk., El Centro. Noted June 1.

Calif., Fresno—Irrigation—Laguna Lands, Inc., plans system canals irrigating about 30,000 acres south Kingsbury. I. Teilman and L. A. Nares, Fresno, interested.

Calif., Modesto—Irrigation—Waterford Irrigation Dist. receiving bids Dec. 19, Sects. Nos. 1 and 2 main canal. Noted Nov. 30.

Bids In and Contracts Awarded

N. Y., Albany—Barge Canal Work—State Supt. Pub. Wks. rejected bids improving Ellicott Creek from intersection with Tonawanda Creek to point opposite southerly property line Eastern Lumber Co. Noted Nov. 30.

Fla., Jacksonville—Drainage—Baldwin Drainage Dist., Consolidated Bldg., let contract canals and improvements to LOGAN CONCRETE AND ENGINEERING CO., Jacksonville, about $218,698. Bonds for work sold. Noted Nov. 2.

Miss., Oxford—Ditches—Lafayette County let contract about 13 mi. drainage ditches to A. V. WILLS & SONS, Boatmen's Bank Bldg., $125,000.

Ind., Kokomo—Ditches—Howard County let contract Helmuthe and Fye Ditches to F. DAVENPORT, Kokomo, about $11,000.

Mich., Grand Haven—Ditch—Ottawa County let contract Rush Creek drain to GIBSON CO., Saginaw, about $20,000.

Minn., Bemidji—Ditch—Beltrami County let contract Ditch No. 25 to E. A. DAHL & CO., Duluth, about $433,122. Noted Oct. 19.

Minn., Breckenridge—Ditch—Wilkin County let contract Ditch No. 27 to G. E. BROWN, Litchfield, $0.146 per cu.yd.

Minn., Mankato—Ditch—Blue Earth County let contract Ditch No. 48 to NEW ULM BRIDGE AND TILE YARDS, about $11,036. Noted Nov. 9.

Minn., Morris—Ditch—Stevens and Swift Counties let contract Ditch No. 2, open work, to H. F. BOSWORTH, Ala., 11¼c. per cu.yd.; tile, SCHOELL BROS., Worthington, $5,100. Noted Nov. 16.

Minn., Morris—Ditch—Stevens County rejected bids Ditch No. 3. Noted Nov. 16.

Ark., South Bend—Drainage—F. O. Lowden let contract draining about 22,000 acres to R. H. McWILLIAMS & CO., Memphis, $35,000. Noted Aug. 3.

MISCELLANEOUS

Proposed Work

N. Y., New York—(Bronx)—Station Finish—Pub. Ser. Comn. for First Dist., 120 Broadway, Manhattan, receiving bids Jan. 3 station finish 6 stations in underground portion Southern Blvd. and Westchester Ave. extension Seventh Ave.-Lexington Ave. Rapid Transit R.R.

N. Y., Rochester—(Official)—Piling—Comrs. Pub. Bldgs. of Monroe County, Court House, receiving bids Dec. 27, 216½ tons Lackawanna

Miscellaneous (Continued)

arch web interlocking steel sheet piling in 55-ft. lengths. About 151½ tons have not been used. remainder about 65 tons has been driven once and pulled without injury. F. S. Couchman, Chn. (See adv.)

N. Y., Utica—Elimination Grade Crossings—New York Central R.R. making plans, at Utica. About $30,000. G. W Kittredge, Grand Central Terminal, New York, Ch. Engr.

N. J., Camden—Water-Front Terminal—New Jersey State Bd. Commerce and Navigation submitted plans to Harbor Comn., foot Spruce St. Plans include terminal between ferries of Reading and Pennsylvania railroads directly on belt line on Front St. connecting 2 railroads and 2 piers. About $881,473. W. D. Sayres, Engr. Camden Harbor Comn.

N. J., Jersey City—Freight Terminal—Lehigh Valley Harbor Terminal Co., subsidiary of Lehigh Valley R.R., purchase site on New York Bay, foot of Chapel St. with 3,600-ft. shore frontage. Part of property under water and it is proposed to dredge and fill in land and use in connection with proposed freight terminal. About $10,000,000. P. Bentley, 75 Montgomery St., Jersey City, Counsel. Noted Mar. 30.

Penn., Philadelphia—Elimination Grade Crossing—Pennsylvania R.R. plans, 24th and Snyder Ave. About $75,000. A. C. Shand, Broad St. Station, Ch. Engr.

Penn., Philadelphia—Fire House—City making plans, 2-story, Germantown Ave. and Venango St., about $10,000. W. H. Wilson, Dir. Dept. Pub. Safety. L. E. Marine, Room 825, City Hall, Arch.

Penn., Philadelphia—Fire House and Police Station—W. W. Wilson, Dir. Dept. Pub. Safety, Room 215, City Hall, receiving bids Dec. 18 building and completing certain portions fire house and police station, Hunting Park Ave. and Schuyler St. and otherwise improving same.

Penn., Philadelphia — Subway — Pennsylvania R.R. plans 2-track passenger train subway from tracks New York Div. near 28th St. down Ridge Ave. and 13th St. to bring Western and Southern express trains into new central station at 15th and Market St. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Va., Roanoke—Retaining Wall—City receiving bids Dec. 27, west and south sides Municipal Bldg., also concrete driveway in rear thereof. F. L. Gibboney, City Engr.

Fla., Lake Worth—Harbor Improvements—City making plans inlet from Ocean to Lake Worth, also building turning basin and dock system. About $200,000. Isham Randolph & Co., 208 South La Salle St., Chicago, Ch. Engr.

Ky., Fairview — Monument — Jefferson Davis Home Assoc. plans, Jefferson Davis Park, 350 ft. high. About $20,000. G. W. Littlefield, Austin, Tex., Pres. Bd. Dir.

Ky., Louisville — Subway — City Engineering Dept. and engineering corps Southern Ry. making tentative plans subway to eliminate grade crossing on Versailles Pike at end West High St. to be about 1,200 ft. long. J. W. Gwyn, City Engr. B. Herman, 1300 Pennsylvania Ave., Washington, D. C., Ch Engr. M. W. and Struct.

Ky., Paducah—Park—Park Comrs. making plans. About $100,000. American Park Bldrs., 140 South Dearborn St., Chicago, Arch. Noted May 18.

Ohio, Canton—Track Elevation—Pennsylvania Lines West of Pittsburgh plans to elevate tracks through Canton. About $3,000,000 to be spent by railroad and $500,000 by city. T. Rodd, Pennsylvania Station, Pittsburgh, Ch. Engr. W. E. Sarver, City Engr.

Ohio, Cleveland—Amusement Pavilion—Luna Park Amusement Co. plans. About $40,000.

Ohio, Cleveland—Bath House—M. Bepurt granted permit bath house, 2505 East 34th St. About $10,000.

Ohio, Cleveland—Elimination Grade Crossing—City receiving bids Jan. 8 purchase of $600,000 bonds to eliminate grade crossings, lake front New York Central Ry. R. Hoffman, City Engr. Noted July 20.

Ohio, Cleveland—Subway—City plans Barber freight subway, East 55th St., in spring. J. J. Breitinger, interested.

Ohio, Cleveland—Swimming Pool—Y. W. C. A., Prospect and East 18th St., plans.

Ohio, Cleveland—Tunnel—City receiving bids Dec. 20 service tunnel under Detroit-Superior high-level bridge subway, West 25th St. R. Hoffman, City Engr.

Ohio, Salem—Subway—Council will ask Pennsylvania Lines West of Pittsburgh to build subway at local passenger station, also place gates at 3 grade crossings in city. T. Rodd, Pennsylvania Station, Pittsburgh, Ch. Engr.

Mich., Muskegon—Comfort Station—City plans, Federal Sq. About $6,000. P. Grimes, City Engr.

Ill., Chicago—Lagoon—J. Hunt, Arch., 53 West Jackson Blvd., submitted plans lagoon along lake front to city. J. Ericson, City Engr.

Wis., Madison—Cast Iron Pipe, Etc.—Bd. of Water Comrs. soon receives bids for furnishing c.-i. pipe, service boxes and meters for use in 1917. E. Parker, Supt.

Wis., Milwaukee—Bath Houses—I. C. Pinner, Jr., Supt. Bridges and Bldgs., recommended city appropriate $85,000 bath houses Lake, Washington and Kosciusko Parks next year.

Minn., St. Paul—Crematory—Oakland Cemetery Assoc. plans. About $60,000.

Minn., West Duluth—Park—West Duluth Commercial Club plans central park, Central Ave., Elinor St. and Grand Ave. H. W. Lanners, Chn. Com.

Mo., Joplin—Elimination Grade Crossings—St. Louis & San Francisco R.R. and Kansas City Southern Ry. submitted preliminary plans 1,500-ft. viaduct. F. G. Jonah, St. Louis, Ch. Engr. former, and C. E. Johnston, Kansas City, of latter.

Mo., Kansas City—Pavilion—Park Bd. rejected bids. New bids Dec. 20. T. C. Harrington, City Hall, Secy. Noted Dec. 7.

Tex., Dallas—Elimination Grade Crossings—Gulf, Colorado & Santa Fe Ry. plans to eliminate 2 crossings, South Dallas. F. Merritt, Galveston, Ch. Engr.

Tex., Dallas—Elimination Grade Crossings—Missouri, Kansas & Texas Ry. adopted plans, North Dallas. About $600,000. L. F. Lonnbladh, Dallas, Ch. Engr. Noted Mar. 2.

Tex., Dallas — Stadium — City plans, Fair Grounds. About $100,000. H. Moseley, City Engr.

Tex., East Dallas—(Dallas post office)—Elimination Grade Crossing—Texas & Pacific Ry. plans rein.-con. viaduct on Pacific Ave. at crossing of Houston & Texas Central Ry., East Dallas, to Broadway near Trinity River, 4 tracks. About $1,000,000. C. E. Smith, St. Louis, made plans. C. H. Chamberlin, Dallas, Ch. Engr.

Colo., Stockton—Speedway—A. H. Patterson recommended that San Joaquin Auto Trades Asson. build speedway. About $125,000.

Utah, Salt Lake City—Skating Rink—University of Utah plans ice-skating rink. L. Marshall, head.

Ore., McMinnville—Creek Improvements—Citizens voted bonds to improve Hasken Creek. Work to be done under supervision. W. J. Brower, Engr.

Calif., Los Angeles—Dam—Citizens voted $683,210 cyclopean concrete dam, 137 ft. high and 750-ft. wide on site lower Otay Dam. M. M. O'Shaughnessy, City Engr., San Francisco, made plans.

Calif., Los Angeles—Dock—Pacific Coast Steamship Co. plans, 1,450-ft. long. City appropriated $266,000 toward cost. F. M. Barry, Asst. Mgr.

Calif., Portersville—Jetties—City plans for flood prevention on Tule River. About $10,000.

Ont., Port Arthur—Docks—Canadian Northern Railway System plans to improve coal and ore docks. About $100,000. H. D. Cameron, Toronto, Mechanical Engr.

Bids In and Contracts Awarded

N. Y., Amsterdam—Mausoleum—H. Chalmers, c-o Harvey Chalmers & Son, 13 East Main St., let contract to JONES BROS., Barre, Vt. About $20,000.

N. Y., New York—(Official)—(Brooklyn)—Park Improvements—Borough received low bids completing 4th part of greenhouses, Brooklyn Botanic Garden, Washington Ave. from Frymier & Hanna, 25 West 45th St., Manhattan, $9,139; Kelly & Kelly, 52 Broadway, Manhattan, $10,100.

N. Y., New York—(Brooklyn)—(Official)—Subway—Pub. Ser. Comn. for First Dist., 120 Broadway, Manhattan, let contract connecting link between New Utrecht Ave. (West End Line), and Culver Rapid Transit R.R., Sect. 1-A, Route 49, to T. DWYER, Broadway and 215th St., Manhattan, about $42,268. Noted Dec. 7.

Penn., Brownsville—Undergrade Crossing—Monongahela Ry. let contract to W. BIRKLE. About $30,000. Noted Sept. 7.

Penn., Philadelphia—Park Improvements—City let contract portion League Island Park to E. H. VARE, Lincoln Bldg., about $500,000. Noted Dec. 7.

Penn., Philadelphia—(Official)—Subway—Dept. City Transit let contract section Broad St. subway, Contract No. 192, to KEYSTONE STATE CONSTRUCTION CO., 704 Pennsylvania Bldg., about $920,130. Noted Oct. 19.

Ill., Chicago—Engine House—Chicago & Northwestern Ry., 226 West Jackson Blvd., let contract, 120th St. and Calumet River, to W. J. CAMERON CO., 106 North La Salle St. About $28,000.

Wis., Portage—Subway—Chicago, Milwaukee & St. Paul Railway Co. let contract, Mac St., to P. JOHNSON, Beloit. Noted Oct. 12.

Mo., Cape Girardeau—(Official)—Park Improvements—City plans to improve Fairground Park by day labor. Muskopf & Irish, St. Louis, Arch. and Engr. Noted Nov. 30.

Wash., Seattle—Sheds—Skinner Eddy Corporation let contract to GRANT, SMITH & CO., Henry Bldg., about $40,000.

Wash., Snohomish—Cement—Snohomish County let contract 200,000 bbl. to WASHINGTON PORTLAND CEMENT CO.

Ore., Portland — Shipways — Columbia River Shipbuilding Co. let contract, (3) to NORTH WESTERN STEEL CO., Foot of Sheridan St., about $30,000.

Ore., St. Johns—Shipways—Peninsular Shipbuilding Co. let contract to JACOBSEN CONSTRUCTION CO., McKay Bldg., Portland.

Calif., Richmond—Bulkhead—Council let contract to STANDARD-AMERICAN DREDGING CO., San Francisco, about $39,376.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works" "Federal Government Work" and "Miscellaneous

Mass., Lowell—High School—Council receiving bids Dec. 28 addition. About $70,000. H. L. Rourke, Hildreth Bldg. Lowell, Arch. Noted Nov. 2.

Mass., Williamstown—Library—Williams College plans improving. About $80,000 or $100,000. A. Harding, Pittsfield, Arch.

N. Y., Binghamton—School—Bd. Education making plans 2-story, 62x83-ft. About $46,000. T. I. Lacey & Son, 1110 Press Bldg., Arch.

N. Y., Garrison—Hotel—Fish & Marvin, 527 5th Ave., New York, making preliminary plans, 7- and 10-story, 160x400-ft. About $1,000,000. Marvin & Davis, 303 5th Ave., New York, Arch.

N. Y., King's Park—Nurses' Home—King's Park State Hospital making plans 3-story, 140x200-ft. About $128,000. L. F. Pilcher, Capitol, Albany, Arch.

N. Y., New York—(Brooklyn)—(Official)—Theater—M. Z. Realty Co., 231 Cherry St., soon receives bids, 1-story, brick, on DeKalb and Sumner Ave. About $30,000. Shampan & Shampan, 772 Broadway, Brooklyn, Arch.

N. Y., New York—(Manhattan)—(Official)—Musical Mutual Protective Union, 210 East 86th St., receiving bids, 3-story, 75x102-ft. office, ball room and commercial building, at 209-15 East 85th St. About $200,000. Trowbridge & Livingston, 527 5th Ave., Manhattan, Arch.

N. Y., Onondago—School—City making plans, 2-story. About $150,000. Russell & King, 602 Snow Bldg., Syracuse, Arch. Noted Aug. 10.

N. Y., Phoenix—Memorial Building—City plans, L. F. Pilcher, Capitol, Albany, Arch.

N. Y., Syracuse—Infirmary—Syracuse University Hospital of Good Shepherd making plans, 4-story, 40x100-ft. Revel & Hallenbeck, Syracuse University, Arch.

N. J., Elizabeth—School—Bd. Education plans at Virginia St. and Union Ave. About $60,000.

N. J., Newark—Courthouse—County making plans. About $750,000. M. N. Shoemaker, 710 Broad St., Newark, Arch.

N. J., Trenton—Hotel—B. C. Kuser made plans. About $500,000 to $750,000. R. E. White, Penn., Bldg., Philadelphia, Penn., Arch.

Penn., Ambridge—Grade School—Bd. Education making preliminary plans, 2-story, 166x312-ft. About $50,000. W. W. Williams, Magee Bldg., Pittsburgh, Arch.

Penn., Coatesville—Bank and Store—National Bank of Chester Valley making plans 1- and 3-story addition and alterations. About $60,000. A. A. Ritcher, 31 North 6th St., Reading, Arch. Noted Oct. 26.

Penn., Doylestown—Science Building—National Farm School making plans . About $75,000. Magaziner & Potter, 603 Chestnut St., Philadelphia, Arch.

Penn., Freeport—Passenger Station—Pennsylvania R.R. plans 2-story, brick and steel, 45x115 ft. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Penn., West Chester—School—Bd. Education made plans 3-story, concrete and brick. About $120,000. P. A. Davis, 1713 Sansom St., Philadelphia, Arch. Noted Nov. 16.

Del., Laurel—Bank—People's National Bank made plans 1-story. About $75,000. T. W. Pietsch, American Bldg., Baltimore, Md., Arch. Noted Nov. 23.

Md., Kendallville—High School—City plans. About $250,000. C. R. Weatherhogg, Arch.

Md., Ocean City—Hotel—Isle of Wright Land Co., recently incorporated with $300,000 capital stock, plans. About $100,000.

Md., Tacoma Park—(Washington, D. C., post office)—Dormitory—Bliss Electric School making plans 4-story, 45x80-ft. and 40x45-ft. addition. About $60,000. F. H. Jackson, Aspen, Rockville, Md., Arch.

Va., Richmond—Hotel—Virginia Building Corporation plans 15-story, 11th and Main St. A. B. Blair interested.

W. Va., Morgantown—University of West Virginia receiving bids Jan. 1, 4-story, brick and limestone, 46x180-ft. and 60x150-ft. buildings. About $300,000. P. A. Davis, 1713 Sanson St., Philadelphia, Penn., Arch. Noted Sept. 28.

S. C., Greenville—High School—School Trustees soon receives bids. About $65,000. P. T. Haynes, Chn. Noted Dec. 7.

Ga., Decatur—Courthouse—(Official)—De Kalb County Comrs. receiving bids in January. About $80,000. Walker & Chase, Candler Bldg., Atlanta, Arch. Noted Nov. 30.

Fla., Jacksonville—School—County receiving bids Dec. 23 brick, at Ashley and Broad St. F. A. Hathaway, 415 Masonic Temple, Supt.

La., New Roads—School—City voted $100,000 bonds to build schools.

La., Shreveport—Opera House—Saenger Amusement Co. plans. About $100,000. E. F. Neild, Continental Bank Bldg., Arch.

La., Shreveport—Bank and Office—Merchants Building Co. making plans 10-story, at Market and Milant St. About $300,000. Sanguiet & Staats, Ft. Worth, Arch. Noted Dec. 7.

Buildings (Continued)

Tenn., Cumberland Gap—Administration Building—Lincoln Memorial University making plans. About $60,000. L Fechheimer, 1534 Union Trust Bldg., Cincinnati, Ohio, Arch.

Tenn., Knoxville—Lodge—Loyal Order of Moose, Knoxville Lodge No 696, plans About $5 , 0

Ohio, Cincinnati—Temple—E T. Carson Lodge of Masons plans, Ohio and McMillen St About $50,000 W. Henke, Secy

Ohio, Cleveland—Church—Broadway Methodist Episcopal Congregation, Broadway and Gallup St., plans. About $150,000 W. L McDowell, Pastor

Ohio, Cleveland—Store—J Novogreder, 1781 East 63d St., making plans on Detroit Ave About $75,000.

Ohio, Dayton—Church—Grace Methodist Episcopal Congregation making plans About $150,000. Scheneck & Williams 591 Arcade Bldg., Arch. Noted Nov. 30

Ohio, Findlay—School—Jackson Township voted $60,000 bonds to build school Noted Oct. 26.

Ohio, Galion—Grade and High School—Bd Education making plans, 2-story. About $175,000 Howard & Merriam, Columbus, Arch Noted Dec. 7.

Ohio, Hilliards—Grade and High School—Bd. Education receiving bids Dec. 22, 2-story. F L. Packard, Heydon Bldg, Columbus, Arch Noted Nov. 9.

Ohio, Marion—Clubhouse—Knights of Columbus made plans. About $100,000.

Ohio, Painesville—Gymnasium and Dormitory—Lake Erie College making plans, 3-story. About $125,000 A. Garfield, 915 Garfield Bldg, Cleveland, Arch.

Ohio, Portsmouth—Hospital—H A Shirrman, M. D., plans 4-story, brick and rein.-con., on 8th St. About $75,000. R. E. Schmidt, Garden and Martin St., Chicago, Ill., Arch

Ohio, Rocky River—High School—Bd. Education receiving bids Dec. 28, sale of $75,000 bonds to build high school. H. Dean, Clk.

Ohio, Steubenville—Y. M. C. A. plans to spend $50,000 for alterations and improvements to building.

Ohio, Youngstown—Terminal Station—Erie R.R. making plans. About $5,000,000. R. S. Parsons, Ch. Engr.

Ind., Auburn—Jail and Residence—Dekalb County making preliminary plans. About $50,000. Robinson & Miller, Leader-News Bldg., Cleveland, Ohio. About $50,000

Ind., Columbia City—City plans building. Church & Cover, Ft. Wayne, Arch.

Ind., Gary—Bank—Union Trust and Savings Bank, Broadway, plans. About $100,000.

Ind., Goshen—F. Mayr, Sr., plans 8-story building.

Ind., Indianapolis—Home—Norwegian Christian Home for Aged Men and Women plans. About $100,000.

Ind., Plymouth—School—City plans. About $70,000.

Mich., Detroit—High School—Cass Technical High School plans addition. About $1,000,000. Malcomson & Higginbotham, Arch.

Mich., Mt. Morris—School—City voted $40,000 bonds to build school.

Ill., Bloomington—Hotel—H. Wiggins plans. About $300,000.

Ill., Chicago—Office—Page Engineering Co. purchased site 210-14 East Huron St., plans 60x111-ft. J. W. Page, Pres.

Ill., Peoria—Hospital—St. Francis made plans addition. About $100,000. A. F. Moratz, Bloomington, Arch.

Ill., Springfield (Official)—Church—Lincoln Memorial Congregation receiving bids in spring About $50,000. Noted Sept 7.

Wis., Madison—Hotel—Claude & Stark, Arch., 8 South Carroll St., made plans for addition to Park Hotel on West Main St. About $350,000.

Wis., Mt. Calvery—College—St. Lawrence Monastery plans 4-story, 50x104-ft. rein.-con. and brick addition. About $50,000. E. Brielmaier & Sons Co., University Bldg., Milwaukee, Arch.

Iowa, Cedar Rapids—Library—Coe College plans. About $50,000.

Iowa, Des Moines—Hotel—M. A. Talbot, Rome, N Y., plans 4-story, at 6th Ave. and Cherry St. About $125,000. Kraetsch & Kraetsch, Des Moines, Arch.

Iowa, Des Moines—Consistory Cathedral—Scottish Rite Cathedral made plans. About $325,000. Noted Dec. 7.

Iowa, Sioux City—Theater—T. S. Martin making plans, 412 Nebraska St. About $100,000.

Minn., Hibbing—Temple—Elks Lodge plans. About $40,000

Minn., Waconia—High and Grade School—School Dist. receiving bids Dec. 20.

Minn., Winnebago—High School—City making plans, 2-story. J. T. Snyder, 741 Plymouth Bldg., Minneapolis, Arch.

Kan., Concordia—Temple—Odd Fellows' Lodge making plans, 3-story, 44x132-ft. C. W. Shaver, Clay Center, Arch.

Kan., Junction—Dormitory—Odd Fellows Home plans About $75,000.

Kan., Neodesha—High School—City voted $100,000 bonds to build high school. Noted Nov. 23.

Kan., Newton—School—Bd. Education receiving bids Dec 27. 2-story, brick About $60,000 Noted Nov 2

Neb., Columbus—Church—Polish Catholic Congregation plans 1-story brick and stone C Wurdeman 313½ 13th St Arch

Neb., Scottsbluff—City Hall—City plans.

N D., Fargo—Science Hall—North Dakota Agricultural College plans. About $60 000

Mont., Deer Lodge—Hospital—Sisters of Charity making plans About $85,000. Beezer Bros. North Bank Bldg Seattle. Wash Arch.

Mont., Great Falls—Home—Salvation Army plans 3-story. About $50,000 R Cooper Chmn Com

Mont., Great Falls—Hotel—Salvation Army making plans. About $5 000

Mont., Lewiston—Hotel—B. H Farrell made plans 6 story About $350,000. Noted Nov 30

Ark., Hot Springs—Hospital—Knights and Ladies of Security plans About $250,000

Tex., Dallas—(Official)—Baptist Sanitarium receiving bids in January, 5-story addition to building About $150,000 C W Bulger & Sons, Praetorium Bldg. Arch. Noted Nov 30

Tex., Ft. Worth—Schools—City soon receives bids About $200 000 Noted Aug 10

Tex., Lubbrock—Sanitarium—City plans 3-story, brick About $50,000.

Tex., San Antonio—Hotel—San Antonio Hotel Co making plans. 3-story, 208x400 ft. About $350 000 J F. Walker, San Antonio, Arch.

Tex., Sherman—High school—City voted $100,000 bonds to build high school. Noted Sept 7

Tex., Temple—Freight Depot, Etc—Atchison, Topeka & Santa Fe R R plans About $75,000. F. W. Felt, Chicago, Ill, Ch Engr

Okla., Oklahoma City—Y. M. C. A. making plans building About $300,000.

Okla., Tulsa—Y M C. A making plans building About $150 000. Noted Oct 12.

Colo., Denver—Museum—City plans addition. About $60.000

N. M., Clovis—High School—City votes Dec 23 on $50,000 bonds to build high school. Noted Nov. 2

Utah, Kaysville—Depot—Salt Lake & Ogden Ry plans L Wilson, Ch Engr.

Wash., Bremerton—Gymnasium—Y. M. C. A. made plans. About $60,000 Steinman & Colvin, Arch

Wash., Centralia—School—School Bd plans. About $60,000 G. L Barner, Clk

Wash., Tacoma—Theater Ackerman & Harris, San Francisco, Calif, plans for Hippodrome Circuit. About $150,000.

Ore., Portland—Clubhouse—Laurelhurst Club plans. Abont $40,000

Calif., Fresno—Burnett Sanitarium plans building About $75,000 J. E. Kraft & Son, Phelan Bldg, San Francisco, Arch.

Calif., Merced—High School—Bd Education made plans About $150,000 Allison & Allison, Hibernian Bldg., Los Angeles, Arch. Noted Nov 23

Calif., Sacramento—School—City made plans bids soon to be received About $200,000 C C Hughes, Supt Schools

Que., St. Jean de Dieu—Church—Parish Congregation soon receives bids About $60,000 P. Levesque, 115 St John St Quebec, Arch

Ont., London—Hospital—London Health Association soon receives bids. About $75,000. Watt & Blackwell, Bank of Toronto Bldg, Arch. Noted Oct 26

Ont., Windsor—Office Bldg—Huron & Erie Mortgage Corporation soon receives bids. Watt & Blackwell, Bank of Toronto Bldg. London, Arch

Bids n and Contracts Awarded

R. I., Pawtucket—School—School Bd. let contract 2-story 191x260-ft to F B ROWLEY CO 260 Central Ave, $175,000

R. I., Providence—Theater and Office—E F Albee, 1564 Broadway, New York, let contract 4-story, 43x100-ft to WARREN MOORE CO Commercial Bldg Philadelphia About $300,000

R. I., Providence—Asylum—Home for Aged Women let contract 3-story, 33x64-ft to W. WILLIAMS, 86 Weybosset St., $75,000

N. Y., Buffalo—Clubhouse—Columbian Turnverin let contract to METZGAR CONSTRUCTION CO, 19 West Huron St About $65.00

N. Y., New Hampton—Reformatory—Dept. of Correction let contract 100x300-ft., brick, to FRYMIER & HANNA, 25 West 45th St., Manhattan, $200,000. Noted Nov. 9.

N. J., Ridgewood—High School—Bd. Education let contract to WATSON FLAGG ENGINEERING CO., 120 Broadway, New York. About $225,000. Noted Nov. 23.

Penn., Charleroi—Council let contract building at 4th St. and Fallowfield Ave. to J. C. BRENTON, $50,000.

Ohio, Dayton—School—Br. Education let contract 2-story, 82x172-ft. to J. ROUKER CO, Dayton. About $150,000. Noted Nov. 23.

Ohio, Wellsville—(Official)—High School—Bd Education let contract 2-story to C. A. VORHES, Nelsonville, $86,980 Noted Nov 16.

Ind., Indianapolis—School—Tudor Hall, c/o Fredinia Allen, 1550 North Meridian St., let contract 2-story to STATE CONSTRUCTION CO, 803 K. of P Bldg., Indianapolis. About $80,000 Noted Sept. 21.

Ind., Martinsville—Sanitarium—Home Lawn Mineral Springs Sanitarium let contract addition to S A HICKMAN Martinsvile About $50,000

Ind., Richmond—Girls' Home—Martha Washington Realty Co. let contract 3-story, 88x133-ft to STRUCTURAL ENGINEERING CO, Leader-News Bldg. Cleveland, Ohio About $100,000.

Mich., Detroit—Bank—Michigan State Bank let contract, Chene and East Forest St., to J. NEWAKEWSKI & CO., Detroit

Mich., Detroit—School—City let contract 2 story, concrete and brick, 1314-40 McGraw St, to A. J. SMITH CONSTRUCTION CO., 18 Campau Bldg., Detroit. About $140,000.

Ill., Chicago—Church—Unity Evangelical Lutheran Congregation let contract 1-story, brick, 5401-52 Magnolia Ave., to A. OSTROM, Chicago About $50,000

Iowa, Des Moines—Hospital—H. S. Richards, Secy., John McDonald Memorial Hospital, let contract to A. H. NEWMAN & CO., 519-20 Hubbell Bldg, $60,000.

Iowa, Sioux City—Church—First Congregational Church let contract to C. F. LITTLE CONSTRUCTION CO., Lytle Bldg., Sioux City, $75,000 Noted Sept 7.

Neb., Grand Island—Passenger Station—Union Pacific Railway Co. let contract to ZEIGLER BROS, Junction City, Kan., $150,000. Noted Oct. 5.

Neb., North Platte—Station—Union Pacific R.R. let contract to J. STEWART & CO., Boatmans Bank Bldg., St Louis, Mo., $125,000.

N. D., Williston—Hotel—G. W. Newton and E B. Link let contract 4-story to E B. LING About $60,000.

Mo., Kansas City—Hospital—City let contract addition to J. E. TAYLOR, 711 Ridge Arcade, $63,057 Noted Nov. 23.

Mo., Monroe—Bank, Store and Office—Farmers' and Merchants' Bank let contract 2-story, 50x140-ft. to J. KNITTEL CO., 319 North 3rd St., Quincy, Ill. About $50,000.

Ark., Bentonville—Bd. Directors Arkansas Grand Lodge, A. O. U. W. let contract 10-story building on Center St. to MANN & STERN, Bentonville. About $150,000.

Tex., Falfurrias—Jail—Brooks County Comrs let contract to C. FUESS & SONS.

Okla., Tulsa—Bank and Office—Exchange National Bank let contract, 11-story, brick, to SELDEN-BRECK CONSTRUCTION CO., Fullerton Bldg., St. Louis, Mo., $159,000.

Calif., Livermore—Hospital—Bd. of County Supervs. let contract to W. G. THORNALLY, $104,690. Noted Nov 23.

Calif., Los Angeles—Hotel—F. Simpson let contract 11-story, rein.-con., on Grand Ave. to ALTA PLANING MILL CO., 830 McGarry St. About $82,800. Noted Nov. 9.

Ont., Hamilton—Hospital Pavilions—Dominion Hospital Comn., Ottawa, let contract to F CHARLTON, Room 207, Clyde Bldg., $50,000.

Paving Equipment for Cuba—One of the largest single shipments of paving equipment on record is that just made to Torrance & Portal, of Havana, Cuba, who has secured extensive paving contracts in Havana and Clenfuegoes. The shipment made by the Iroquois Works of the Barber Asphalt Paving Co. consisted of 6 cars routed by way of Key West, Fla., carrying two 3-unit asphalt plants, two 2,000-gal. and one 1,000-gal steam-heated melting kettles, 4 tandem rollers, 2 portable boilers and engines, firewagons, paving tools, etc. Contracts already secured by the Havana firm for paving in which Trinidad lake asphalt will be used, total about 400,000 sq.yd. One of the Iroquois plants is to be located at Havana and the other at Clenfuegos.

The copartnership of the **Francis M. Barton Co.**, composed of Francis M. Barton, Jens J. Jensen, Robert Seth Lindstrom and Edward A. Klamt was terminated on Nov. 26 and same is now composed of Francis M. Barton, Jens J. Jensen and Edward A. Klamt.

Ike S. Byrum, special representative of the Troy Wagon Works Co., Troy, Ohio, has completed arrangements for the handling of Troy motor truck trailers with O'Rourke-Muller Motor Co., 853 Carondelet St., New Orleans, La.

Fayette C. Kirby, Consult. Engr., San Antonio, Tex., announces that he has charge of considerable work that will be open for bids in the near future. He would be pleased to receive catalogs and prices on all engineering lines especially at present, on building work of all description, sewers, septic tanks, power plants and equipment and water-works. All of the work will be handled through Mr. Kirby.

BARGE CANAL, ALBANY, N. Y.

Terminal Contract No. 101

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., Albany, for Barge Canal work, Terminal Contract No. 101, furnishing and installing steel stiff leg derricks on terminal sites at Albany, Whitehall, Little Falls, Rome, Lockport and Tonawanda, from (A) Lupfer & Remick, Buffalo; (B) Engineer's Estimate The item bids were as follows:

	A	B
130 cu.yd. excavation (Albany)	$0.60	$0.60
83 cu.yd. concrete (Albany)	10.00	7.00
32,450 lb. metal (Albany)	.14	.09
182 sq.yd. removing pavement (Albany)	.60	.60
166 sq.yd. relaying pavement (Albany)	.50	.50
221 cu.yd. excavation (Whitehall)	.60	.60
65 cu.yd. concrete (Whitehall)	10.00	7.00
35,090 lb. metal (Whitehall)	.14	.09
192 cu.yd. excavation (Little Falls)	.60	.60
55 cu.yd. concrete (Little Falls)	10.00	7.00
32,450 lb. metal (Little Falls)	.14	.09
252 cu.yd. excavation (Rome)	.60	.60
71 cu.yd. concrete (Rome)	10.00	7.00
35,970 lb. metal (Rome)	.14	.09
118 cu.yd. excavation (Lockport)	.60	.60
70 cu.yd. concrete (Lockport)	10.00	7.00
31,020 lb. metal (Lockport)	.14	.09
118 sq.yd. removing pavement (Lockport)	.60	.60
109 sq.yd. relaying pavement (Lockport)	.50	.50
109 cu.yd. excavation (Tonawanda)	.60	.60
77 cu.yd. concrete (Tonawanda)	10.00	7.00
31,020 lb. metal (Tonawanda)	.14	.09
182 sq.yd. removing pavement (Tonawanda)	.60	.60
168 sq.yd. relaying pavement (Tonawanda)	.50	.50
Extended totals	$33,053	$21,890

Contract No. 98

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., Albany, for Barge Canal work, Contract No. 98, lift bridge on Adams St., Lockport, and removing existing lift bridge at Chapel St., from (A) Lupfer & Remick, Buffalo; (B) Tifft Construction Co., Inc., Buffalo; (C) H. S. Kerbaugh, New York. The item bids were as follows:

	A	B	C
12,800 cu.yd. excavation	$0.18	$0.68	$1.20
4,150 cu.yd. forming embankment	.15	.12	.15
234 M ft. b.m. sawed lumber	78.00	60.00	70.00
874 cu.yd. second-class concrete	9.00	6.50	9.00
1,100 cu.yd. first-class reinforced concrete	13.80	9.50	13.00
383 cu.yd. wash wall	3.00	2.00	2.50
290 cu.yd. wash wall relaid	2.00	1.00	2.00
375,700 lb. structural steel	.072	.08¼	.07½
66,900 lb. metal reinforcement	.054	.03½	.05
65,400 lb. machinery	.15	.15½	.15
1,760 sq.ft. concrete sidewalks	.25	.16	.30
384 lin.ft. concrete curbing	.90	1.00	1.30
65 sq.yd. brick pavement	1.40	1.70	2.00
165 sq.yd. waterbound macadam 6 in. thick	.75	.80	1.00
775 sq.yd. waterbound macadam 9 in. thick	1.20	1.10	1.20
354 lin.ft. wooden fence	.25	.25	.35
68 lin.ft. wrought iron pipe railing	2.00	1.80	2.50
370 lin.ft. lattice railing	3.30	2.80	4.50
2,200 lb. metal duct	.144	.13	.14
36 lin.ft. drilling holes in existing masonry	1.00	1.00	1.00
Electrical equipment (lump sum)	5,520.00	4,200.00	6,000.00
Plumbing (lump sum)	840.00	680.00	1,200.00
Operator's house (lump sum)	3,000.00	2,100.00	3,000.00
Maintaining navigation (lump sum)	840.00	600.00	1,000.00
Cofferdams, pump, bail and drain (lump sum)	960.00	600.00	1,000.00
Deduct for superstructure of Chapel St. Bridge (lump sum)	100.00	500.00	300.00
Extended totals	$84,788	$82,276	$99,111

SEWAGE-DISPOSAL PLANT, SEDALIA, MO.

Bids were received by city Nov. 6 for constructing the Northwest Sedalia Sewage-Disposal Plant from (A) T. H. Johnson, Sedalia; (B) J. W. MENEFEE, Sedalia (awarded contract); (C) Woehler Construction Co., Kansas City, Mo. The item bids were as follows:

	A	B	C
Disposal plant (lump sum)	$53,263	$52,500	$54,356
5,810 cu.yd. earth excavation	.55	.40	.60
540 cu.yd. rock excavation	3.30	3.50	3.50
1,480 cu.yd. concrete	6.40	10.00	12.00
4,265 cu.yd. filter stone	2.25	2.50	3.25
42 cu.yd. filter gravel	2.25	2.50	3.25
56 cu.yd. filter sand	1.90	2.50	2.00
84,000 lb. reinforcing steel	.03¾	.05	.04 9/10
1,750 lb. miscellaneous steel	.08	.15	.06
35,600 lin.ft. 6-in. split tile	.05½	.05	.06
390 lin.ft. 6-in. drain tile	.11	.05	.12
72 lin.ft. 6-in. vit. sewer pipe	.12	.11	.17
3,180 lin.ft. 8-in. vit. sewer pipe	.22	.17	.23
16 lin.ft. 12-in. vit. sewer pipe	.33	.28	.69
380 lin.ft. 15-in. split sewer pipe	.41	.60	.51
80 lin.ft. 15-in. vit. sewer pipe	.48	.45	1.25
762 lin.ft. 18-in. vit. sewer pipe	.70	.65	1.50
215 lin.ft. 24-in. vit. sewer pipe	1.30	1.20	1.70
408 lin.ft. 8-in. c.-i. pipe	1.40	1.50	1.40
1,008 lin.ft. 3-in. galv. w.-i. pipe	.55	.55	.60
8,650 lb. special c.-i. fittings	.05	.05½	.05
46 gate valves	22.00	21.00	23.00
252 nozzles	2.50	2.50	2.00
2 manholes	25.00	40.00	40.00
10 valve boxes	5.50	5.00	5.00
Sewer Construction			
2,442 lin.ft. 24-in. vit. pipe laid	1.97	2.00	2.00
4 manholes	35.00	35.00	40.00
2,000 lin.ft. loose rock, 1 ft. deep	.24	.25	.20
2,000 lin.ft. solid rock, 1 ft. deep	.40	.40	.35
E tended grand totals	$59,494	$58,824	$60,500

STORM SEWERS, PLAINFIELD, N. J.

Bids were received by Common Council Nov. 20 for storm sewers from (A) CHARLES A. PETERSON, Plainfield (awarded contract); (B) C. J. Cogan, Bayonne; (C) James Ferry & Sons, Inc., Baltimore, Md.; T. Foster Callahan, Elizabeth, $30,419; J. M. Kelley Contracting Co., Camden, $31,696; H. K. Corbin Co., Inc., New York, $34,490; Harrison & Craig Co., Newark, $36,339. The item bids of the three lowest bidders were as follows:

	A	B	C
110 lin.ft. 45-in. circular sewer 12 to 14 ft. deep	$7.80	$8.33	$8.75
180 lin.ft. 45-in. circular sewer 14 to 16 ft. deep	8.90	8.81	9.75
110 lin.ft. 45-in. circular sewer 16 to 18 ft. deep	9.80	9.29	11.25
380 lin.ft. 42-in. circular sewer 14 to 16 ft. deep	8.40	8.27	8.65
390 lin.ft. 42-in. circular sewer 16 to 18 ft. deep	9.45	8.71	9.80
70 lin.ft. 39-in. circular sewer 10 to 12 ft. deep	6.55	6.76	6.85
250 lin.ft. 39-in. circular sewer 12 to 14 ft. deep	6.95	7.20	7.50
420 lin.ft. 39-in. circular sewer 14 to 16 ft. deep	7.70	7.60	8.70
120 lin.ft. 36-in. circular sewer under 6 ft. deep	5.25	4.98	5.00
40 lin.ft. 36-in. circular sewer 6 to 8 ft. deep	5.55	5.30	5.70
50 lin.ft. 36-in. circular sewer 8 to 10 ft. deep	5.85	5.12	6.30
50 lin.ft. 36-in. circular sewer 10 to 12 ft. deep	6.20	5.44	7.00
60 lin.ft. 33-in. circular sewer under 6 ft. deep	4.90	4.12	4.10
100 lin.ft. 33-in. circular sewer 6 to 8 ft. deep	5.10	4.44	4.40
110 lin.ft. 27-in. circular sewer under 6 ft. deep	4.20	3.33	3.10
410 lin.ft. 27-in. circular sewer 6 to 8 ft. deep	4.45	3.57	3.40
140 lin.ft. 27-in. circular sewer 8 to 10 ft. deep	4.65	3.81	3.85
1 manhole under 6 ft. deep	50.00	47.00	40.00
2 manholes 6 to 8 ft. deep	60.00	47.00	45.00
1 manhole 10 to 12 ft. deep	65.00	52.00	75.00
3 manholes 14 to 16 ft. deep	85.00	62.00	100.00
3 manholes 16 to 18 ft. deep	100.00	71.00	110.00
30 inlets	30.00	54.00	35.00
800 lin.ft. 12-in. vitrified inlet connections	1.10	1.50	1.25
100 lin.ft. 15-in. vitrified inlet connections	1.50	1.50	1.40
1 connection with brook Watching Ave.	25.00	75.00	100.00
40 sq.yd. brick pavement restored	3.00	2.25	3.00
1,000 sq.yd. water-bound macadam restored	.75	1.25	.90
300 cu.yd. concrete for foundations, etc.	7.00	7.50	9.00
100 cu.yd. foundations of screened gravel	1.00	2.50	1.00
100 cu.yd. rock excavation	.25	4.00	2.00
40 M ft. b.m. lumber for sheeting	30.00	28.00	30.00
5 M ft. b.m. lumber for platforms and foundations	40.00	45.00	40.00
100 lb. steel I-beams used in manholes	.08	.05	.07
Extended totals	$28,361	$29,192	$30,140

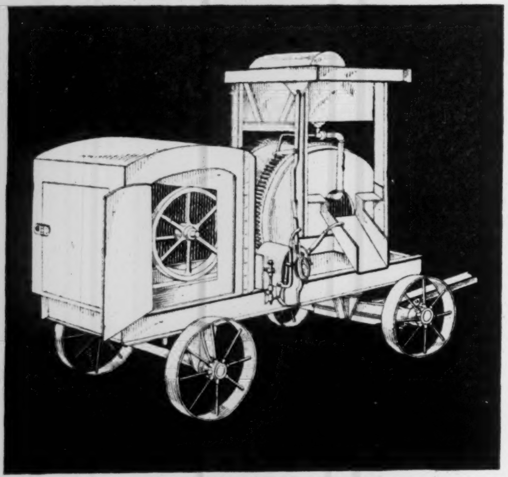
RAPID TRANSIT SYSTEM, NEW YORK, N. Y.

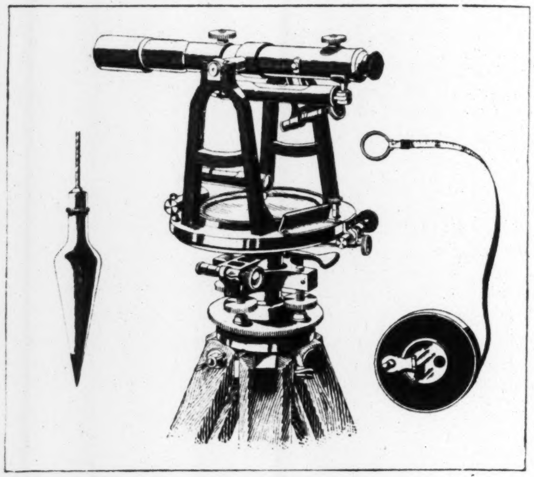
Signal Towers

Bids were received by Public Service Commission Nov. 9 for installing signal towers on River Rd. and Jerome Ave. extension of Seventh Avenue-Lexington Avenue Line White Plains Line and Queensboro Subway, Routes Nos. 16-18, Sects. Nos. 1 and 2, Routes Nos. 36 and 37, Sects. Nos. 1 and 2, from (A) H. C. STOWE CONSTRUCTION CO., 221 Greenpoint Ave., Brooklyn (awarded contract); (B) Snare & Triest, 233 Broadway, New York; (C) T. Dwyer, Broadway and 216th St., New York; J. B. Roberts, 3 West 29th St., New York, $125,520; Charles Meads & Co., 38 Park Row, New York, $130,919. The item bids of the three lowest bidders were as follows:

	A	B	C
110 lin.ft. stairways, wood treads	$1.10	$2.40	$2.00
310 lin.ft. stairways, steel treads	2.00	3.10	2.00
420 sq.ft. stairway landings, wood	.95	1.30	2.00
350 sq.ft. stairway landings, steel	2.00	2.20	2.00
3 ton steel columns, etc.	130.00	170.00	150.00
30 cu.yd. masonry, etc., concrete foundations	10.00	17.00	10.00
12 cu.yd. masonry, etc., brick or concrete manholes	50.00	80.00	50.00
10 cu.yd. rock excavation	6.00	6.00	10.00
950 lin.ft. railings, pipe	1.60	1.10	1.50
540 lin.ft. metal leaders, 3-in. corr. c.i.	.35	.35	.50
75 lin.ft. metal leaders, 3½-in. w.i.	1.60	1.30	1.50
625 lin.ft. metal leaders, 3-in. copper	.75	.90	1.00
100 ton enclosures between stations, steel framing	130.00	145.00	130.00
175 ton enclosures between stations, steel girders, etc., supporting	130.00	135.00	132.00
3 ton enclosures between stations, steel girders reinforcing	160.00	180.00	140.00
1,150 drilling holes in steel	.35	.40	.50
170 sq.ft. metal lath, without furring	.12	.20	.30
12 doors, oak toilet stalls	12.00	12.00	20.00
250 hardware for doors, d.h. sash	5.00	3.50	4.00
11 hardware for doors, hinged sash	4.50	7.00	3.00
12 hardware for doors, toilet stall doors	12.00	12.00	5.00
3 hardware for doors, vent doors	4.50	4.00	5.00
20 hardware for doors, single door signal tower	12.00	10.00	5.00
10 hardware for doors, double door signal tower	18.00	20.00	10.00
20 additional hardware door checks	6.00	5.00	10.00
30 additional hardware door stops	3.50	2.50	3.00
10 additional hardware, rubber covered chains	2.50	2.00	2.00
470 cu.ft. h.t. masonry	.75	.90	1.00
400 sq.ft. slate wainscoting	.90	1.20	2.00
185 sq.ft. slate, pipe-chamber partition	1.00	1.40	2.00
60 sq.ft. slate shelves	1.00	1.50	2.00
620 sq.ft. slate, stall partition	1.00	1.30	2.00
23,700 sq.ft. walls—floors, etc., copper covered and windows and walls	1.25	1.30	1.30
23,000 sq.ft. walls—floors, etc., crimped G. I. and ceilings—walls	.25	.18	.25
9,500 sq.ft. walls—floors, etc., floor rein. concrete	.50	.70	.50
14 sq.ft. walls—floors, etc., G. I. roof vent	9.00	5.50	10.00
9,850 sq.ft. walls—floors, etc., roof	.60	.70	.50
260 sq.ft. walls—floors, etc., partition walls	.40	.70	1.00
5 cu.yd. walls—floors, etc., concrete piers	10.00	17.00	20.00
5 cu.ft. walls—floors, etc., concrete copings	1.00	2.00	2.00
1,160 sq.ft. walls—floors, etc., cement wainscots	.50	.35	.30
28 sq.ft. walls—floors, etc., c.-i. saddles	5.00	7.00	5.00
2,900 sq.ft. wood flooring, passage ways	.25	.30	.50
12 sq.ft. plumbing fixtures, water closet bowls	55.00	45.00	60.00
12 plumbing fixtures, lavatories	45.00	36.00	50.00
Rough plumbing towers (lump sum)	7,960.00	7,000.00	10,000.00
12 c.-i. registers	5.00	10.00	10.00
2,150 steel supporting shapes	.07	.14	.10
12 sewer and water connections, sewer connections, all sizes	255.00	160.00	160.00
12 sewer and water connections, water connections, all sizes	175.00	60.00	160.00
Extended totals	$110,650	$112,243	$113,444

See How the Ormay Process Brings Out the Details





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ENGRAVING DEPARTMENT

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Construction News

RAILWAYS—STEAM AND ELECTRIC . . . .

Proposed Work

Pennsylvania—Wilkes-Barre & Hazleton Ry. made surveys line from Hazleton to Tamaqua, via Black Ridge and Cranberry to connect with Philadelphia & Reading and Lehigh & New England Rys. About $300,000. C. B. Houke, Hazleton, Gen. Mgr. Noted Oct. 26.

Virginia—Atlantic Coast Line R.R. plans improvements in vicinity of Byrd St. station, Richmond. About $500,000. J. E. Willoughby, Wilmington, N. C., Ch. Engr.

South Carolina—Isle of Palms Traction Co., Charleston, plans 1½-mi. track next year. W. W. Fuller, Charleston, Ch. Engr.

Georgia—American Pine and Cypress Co., St. Marys, plans railway in connection with lumber plant on St. Marys River near St. Marys, about 3 mi. L. D. Cox, 603-18 Atlantic National Bank Bldg., Jacksonville, Pres.

Florida—Florida East Coast Railway Co. plans track on north bank West Palm Beach Canal, West Palm Beach. E. B. Carter, St. Augustine, Ch. Engr.

Mississippi—Meridian & Bigbee Ry. incorporated to succeed Meridian & Deepwater Ry., will build line from Meridian, Miss., to Myrtlewood, Ala., about 47 mi., also plans to extend line later to Pensacola, Fla. S. A. Neville, Meridian, and J. T. Schley, Mobile, Ala., interested. Noted Dec. 7.

Louisiana—New Orleans & Lower Coast Railroad Co. organized to succeed New Orleans, Ft. Jackson & Grand Isle Railroad Co., will build extension from Buras to Venice, 16 mi. G. Janvier, New Orleans, Secy.

Louisiana—Peavy-Wilson Lumber Co., Shreveport, recently incorporated with $1,000,000 capital stock, plans line from Longleaf to connect with Kansas City Southern R.R., near Christi, 55 or 60 mi. A. J. Peavy, Shreveport, Pres.

Tennessee—Southern Ry. purchased site 4 mi. east Knoxville to build cut-off or belt line from Coster Yards to Mascot. W. H. Wells, 1300 Pennsylvania Ave., Washington, D. C., Ch. Engr. M. W. and Struct.

Kentucky—Bond-Foley Lumber Co., Bond, plans to extend line from East Bernstadt to point beyond McKee.

Ohio—Cleveland Railway Co., Leader News Bldg., Cleveland, plans car tracks on new Detroit-Superior high-level bridge. About $135,000. G. L. Radcliffe, Leader News Bldg., Cleveland, Gen. Mgr.

Ohio—Stark Electric R.R. plans line from Alliance to Marlboro, 6 mi., next year. F. L. Mowry, Alliance, Gen. Mgr.

Indiana—Pennsylvania Lines West of Pittsburgh plans to double-track Richmond Division between Cincinnati and Logansport. T. Rodd, Pennsylvania Station, Pittsburgh, Ch. Engr.

Missouri—Chicago, Burlington & Quincy Ry. granted permission by Pub. Ser. Comn. of Missouri to build line from Monroe City to Moberly, about 40 mi. W. L. Breckenridge, Chicago, Ch. Engr. Noted Dec. 7.

Missouri—Oklahoma and Interstate Railway Co., Commerce, applied to Council franchise to build line. J. R. Rose, Oklahoma, Pres.

Arkansas—Ozark & Arkansas Midland Railway Co., recently incorporated with $750,000 capital stock, plans line from Rogers to Kingston, about 40 mi., thence to Bald Knob, 125 mi. farther. Company will also take over line Ozark Land and Timber Co. from Monte Ne to Piney, 8 mi. C. G. Wright, Dallas, and W. A. Mundell, Rogers, interested.

Texas—Atchison, Topeka & Santa Fe Ry. receiving bids line from Lubbock through Brownfield and Terry County to point in Gaines County, about 64 mi. F. M. Bisbee, Amarillo, Ch. Engr. Western Lines. C. F. W. Felt, Chicago, Ch. Engr. Ry. Noted Aug. 17.

Texas—Eagle Pass & Gulf R.R. soon lets contract first 100 mi. of railway from Eagle Pass to Aransas Pass. A. L. Matlock, 518 Bedell Bldg., Eagle Pass., Atty. Noted Oct. 26.

Oklahoma—Gulf, Colorado & Santa Fe Ry. making surveys line from point near Ardmore to new oil fields near Wirt, about 20 mi. F. Merritt, Galveston, Ch. Engr.

Oklahoma—Ringling & Oil Fields Railroad Co. making surveys line from Ringling to Oklahoma City, about 120 mi. J. J. Harrison, Ardmore, Surv. J. L. Hamon, of Oklahoma, New Mexico & Pacific R.R., interested. Noted Dec. 14.

Oklahoma—Webbers Falls Railroad Co. plans line from Warner to Checotah, about 15 mi. next year. S. R. Threlkeld, Webbers Falls, Gen. Mgr.

Idaho—Pocatello Traction and Interurban Co. will be organized to build line from Preston through Pocatello, Blackfoot, Idaho Falls, Shelley and St. Anthony to Ashton, about 172 mi. R. Douglas, Pocatello, Pres.

Washington—City, Seattle, defeated $450,000 bonds build line railway along water front. J. R. West, Ch. Engr. Port Seattle. C. E. Remsberg, Secy. Comrs. Noted Nov. 30.

Oregon—City, Prineville, to sell $225,000 bonds Dec. 28 to build railway from Prineville to main line of Oregon Trunk R.R., 18 mi. west. N. G. Wallace, Member Council. Noted Oct. 12.

California—Fresno Interurban Railway Co. secured permission from State Railroad Comn. to issue and sell $49,597 bonds to be used to extend lines in Fresno. L. H. Landis, Hobart Bldg., Fresno, Gen. Mgr.

California—Northwestern Pacific R.R. plans branch line around McNears point near San Rafael. F. K. Zook, San Francisco, Ch. Engr.

Ontario—Port Arthur Civic Ry. plans to resurface tracks on Cumberland St. from McVicar to Arthur St. and replace present rail joints with 100-lb. joints. M. M. Inglis, Port Arthur, Mgr.

Bids In and Contracts Awarded

Pennsylvania — Midland-Pennsylvania Ry. let contract line from Gratz to Gordon to W. S. ALDRICH, Audubon.

Louisiana—Orleans-Kenner Electric Railway Co. let contract line from Kenner to Rost to JOHNSON & CO., INC., New Orleans. Noted June 1.

Texas—Houston, Richmond & Western Ry. let contract grading 60 mi. interurban railway from Houston to Garwood to MOORE & SONS, Lufkin.

New Mexico—El Paso & Southwestern Railroad Co. let contract rebuilding and grading portion tract near Three Rivers to W. J. HARRIS CONSTRUCTION CO., El Paso. About $150,000.

California—San Diego & Arizona Railway Co., San Diego, let contract building remaining lines to TWOHY BROS., First National Bank Bldg., San Francisco. Noted Nov. 30.

LIGHT, HEAT AND POWER

Proposed Work

N. H., Milton—Twin State Gas and Electric Co., Masonic Bldg., Dover, making plans 1-story, 20x29-ft. hydro-electric power plant. About $25,000. I. W. Jones, Engr.

N. Y., Oswego—City made plans 1-story, 50x120-ft. hydro-electric plant. About $600,000. J. A. Bensel, 111 Broadway, New York, Engr.

N. J., Perth Amboy—P. White & Sons will construct a 40x40-ft. addition to boiler and engine room.

Va., Staunton—Blue Ridge Light and Power Co. plans extending system.

Ohio, Cleveland—Swift & Co. granted permit, power plant at 3242 West 63rd St.

Ohio, Mt. Gilead—Hydraulic Press Manufacturing Co., made plans, receiving bids about Feb. 1, 1-story, 24x30-ft. addition to power house. F. B. McMillin, Gen. Mgr.

Ohio, Toledo—Toledo Railways and Light Co. plans power plant on East Side. About $6,000,000.

Ill., Dixon—Illinois Northern Utilities Co. plans power plant. About $280,000. H. H. Heinze, Dixon, Pur. Agt.

Ill., Highland—Council granted franchise to Southern Illinois Light and Power Co. to build transmission line. W. A. White, Vice-Pres.

Ill., Sherrard—Sherrard Power System Co., recently incorporated, with $30,000 capital stock, plans electric-light and power system. W. Bowen, B. Bowen and J. Klucket interested.

Wis. Black Earth—City plans electric-light plant. W. Meister interested.

Ia., Centerville—Iowa Southern Utilities Co. plans power plant.

Ia., Keokuk—Bd. Superv. granted petition to Mississippi River Power Co. to build transmission line along river from Keokuk to Montrose.

Minn., Rochester—City made plans, receiving bids about Jan. 1, hydro-electric plant. About $500,000. H. D. Cooper, 101 Park Ave., New York, Engr. Noted Sept. 7.

Kan., La Crosse—City votes Dec. 28 on $12,500 bonds to build electric-light plant.

S. D. Dell Rapids—City voted $40,000 bonds to install electric-light system.

Mont., Bozeman—Bd. Freeholders granted franchise to Gallatin Valley Gas Co. to install gas plant.

Mo., Joplin—City voted $175,000 bonds to build electric-light plant.

Tex., Alto—Alto Light and Power Co. plans rebuilding its electric-light plant recently destroyed by fire.

Tex., Kemp—City plans electric-light plant.

Tex., Mabank—City plans electric-light plant.

Tex., Mart—Mutual Electric Co. granted franchise by City Comn. to build electric-light plant. J. L. Har'an, interested.

Tex., Pearsall—Pearsall Electric Light Co. plans rebuilding electric-light system.

Tex., Wellington—Wellington Power and Light Co. has been purchased by B. F. Godwin, who plans improving system.

Tex., Winters—Winters Light and Milling Co. plans 13,500-volt transmission line to supply power to American Locomotive Works.

Okla., Mountain Park—City voted to install electric-light plant.

Okla., Oklahoma—Southwestern Power, Light and Railway Co., Security Bldg., plans 5 hydro-electric plants on Washita River. About $1,000,000.

Wash., index—Council plans electric-light system.

Calif., Colton—Fontana Power Co. made plans hydro-electric plant.

Calif., Hanford—Bd. Supervs. receiving bids Jan. 2 for purchase of 50-year franchise to build transmission lines over roads and highways of Kings County. E. F. Picherell, Hanford, Clk. Bd.

Ont., Oil Springs—Council considering plans hydro-electric lighting and power distributing system. About $15,000.

Bids In and Contracts Awarded

Ohio, East Palestine—Bd. Trustees Pub. Affairs let contract power plant and water-works station to J. G. MADDEN, East Palestine. Noted Nov. 23.

Wis., Superior—Continental Truck Co. let contract power house to W. CARTER, Superior.

Mo., Kansas City—Kansas City Light and Power Co. let contract 1-story, 50x142-ft. heating plant to E. L. WINN CONSTRUCTION CO., 105 Railway Exchange Bldg., Kansas City. About $46,000

BRIDGES

Proposed Work

R. I. Pdovidence—Common Council considering bridge over river at Market and Postoffice Sq., Washington Row and Canal St. About $50,000. M. H. Bronsdon, City Engr. Noted Nov. 23.

N. Y., Jamestown—Bd. Estimate and Review recommended $70,000 bond issue to build 2 concrete or rein.-con. bridges, one 85 ft. long and 50 ft. wide over Sprague St., about $25,000; other 87x50 ft. over Harrison St., about $25,000; als 8-in. sewer pipe portions 3 streets. C. G. Jones City Enr.

Pa., Franklin—Pennsylvania R.R. plans concrete slab bridge over Stewart Creek, President Township, Venango County. Plans approved by State Water Supply Comn., Harrisburg. A. C Shand, Broad St. Station, Philadelphia Ch. Engr

Pa., Reading—Berks County plans canal bridg in Robeson Township near Birdsboro. Address County Clk., Reading.

Pa., Tionesta—Pennsylvania R.R. plans concrete slab bridge over Dawson Run, Harmon Township, Forest County. Plans approved b State Water Supply Comn., Harrisburg. A. C Shand, Broad St. Station, Philadelphia, Ch Engr.

Pa., Watsontown—City making plans bridg across Susquehanna River between Watsontow and White Deer. About $200,000. W. G Thomas, Engr.

Pa., Wilkes-Barre—City plans rein.-con. bridges and concrete retaining walls at Franklin, Regent and Waller St. B. K. Finch, City Engr.

W. Va., Huntington—City making plans bridg over Ohio River. A. B. Maupin, City Engr.

Ala., Birmingham—City soon receives bids 21st St. Viaduct. About $200,000. J. Kendrick City Engr.

Ky., Richmond—(Official)—Madison County voted $35,000 bonds to build bridge over Kentucky River at Clays Ferry. Address County Clk., Richmond. Noted Nov. 23.

Ohio, Columbus—City plans bridge on Town St. H. Maetzel, City Engr.

Ohio, Middletown—Ohio Electric Railway Co. making plans and soon receives bids 120-ft. bridge, 2 concrete abutments over Cincinnati Hamilton & Dayton R.R. W. K. Schopf, Traction Bldg., Cincinnati, Pres.

Ohio Toledo—Chesapeake & Ohio R.R. plans bridge over Ohio River. About $4,000,000. F. I Cabell, Ch. Engr.

Mich., Iron River—Village plans bridge on Eas Genesee St.

Ill., Chicago—Bd. Pub. Wks. plans to spen $6,500,000 to build bridges. J. Ericson, Cit Engr.

Bridges (Continued)

Ill., Chicago—(Official)—Dept. Pub. Wks., Room 406, City Hall, receiving bids Jan. 10, superstructure Strauss Direct Lift Bridge over South Branch Chicago River, at West 12th St. R. Moorhouse, Comr. Pub. Wks. Noted Nov. 23. (See adv.)

Ill., Lewistown—Kerson Township voted $5,000 bonds to pay share cost of building $10,000 bridge over Olter Creek. Address E. F. Motsinger, County Supt. Highways, Fulton County, Canton.

Wis., Grand Rapids—Wood County plans bridge over Wisconsin River during 1917. About $60-000. Address County Clk., Grand Rapids.

Wis., West Allis—City plans new bridge to replace one over tracks North Western Ry. E. G. Orbert, City Engr.

Ia., Atlantic—(Official)—Cass County receives bids about Feb. 1, three 32-ft. and two 24-ft. I-beam span bridges and 2 rein.-con. box culverts. H. S. Williams, Atlantic, County Engr. Noted Dec. 7.

Ia., Ft. Dodge—Webster County making plans, receiving bids about Jan. 1 bridges. About $30,-000. J. L. Parsons, Engr.

Ia., Maquoeeta—Jackson County receiving bids in February bridges. C. M. Fisher, Maquoeeta County Engr. Noted Nov. 23.

Ia., Sidney—Fremont County receiving bids Dec. 28 furnishing 300-ft. B. M. No. 1 full sawed Douglas fir bridge lumber; 12,000 lin.ft. red cedar piling, 14 to 34-ft.; 2,000 lin.ft. corrugated pipe, 1,800 lin.ft. concrete pipe; 1,000 tons washed and screened gravel. F. B. Jenkins, Sidney, County Audr.

Ia., Toledo—Tampa County receiving bids about Apr. 1 bridges. A. R. Hebenstreit, Toledo, County Engr. Noted Nov. 30.

Ia., Waukon—Allamakee and Clayton Counties plans 2 bridges on boundary line of counties. Address County Clk., Waukon.

Minn., St. Paul—Chicago & Great Western R.R. making plans repairing bridge over tracks. W. K. Calvin, Asst. Engr.

Kan., Erie—Neosho County receiving bids Jan. 8 repairing 2 bridges and building 6 new ones. J. W. Pratt, Chanute, Engr. Noted June 22.

Kan., Paola—(Official)—Miami County called off letting of bridges as advertised for Dec. 27. E. Huff, Paola, County Engr. Noted Dec. 14.

Neb., Falls City—Richardson County receiving bids Jan. 8 several bridges. O. O. Marsh, Falls City, County Clk.

Ark., Mt. Ida—Montgomery County Comrs. receiving bids Dec. 29, 4 steel bridges. J. B. Kelly. Mt. Ida, County Judge. Noted Nov. 16.

Tex., Dallas—City plans 2-concrete bridges over Turtle Creek on Fairmount St. and Lemmon Ave. H. Moseley, City Engr.

Tex., Wichita Falls—Wichita County Comrs. sold $80,000 bonds to build bridges. Address County Clk., Wichita Falls. Noted Nov. 16.

Okla., Nowata—Nowata County plans bridges. Bonds sold. Address County Clk., Nowata.

Okla., Tahlequah—Cherokee County election Dec. 22 to vote on $50,000 bonds to build bridges in county. Address County Clk., Tahlequah. Noted Dec. 7.

Utah, Salt Lake City—City receiving bids Jan. 3, 8-span pile bridge across Jordan River at California Ave. S. Q. Cannon, City Engr.

Ore., Dallas—Polk County—appropriated $41,-271 as share of cost of rein.-con. bridge between Polk and Marion Counties. A. Robinson, Jr., Dallas, Clk. Polk County.

Calif., Colusa—Colusa County plans concrete bridge near Kilgore Pl. C. J. Westcott, Colusa, Superv.

Calif., Los Angeles—Bd. Superv. Los Angeles County receiving bids Dec. 26 pile trestle bridge over Eaton Wash. Address Clk., Los Angeles.

Bids In and Contracts Awarded

N. Y., Buffalo—Dept. Pub. Wks. let contract bascule bridge over Buffalo River on Abbott Rd. to LUPFER & REMICK, Ellicott Sq. Noted Nov. 2.

N. J., Cape May—Bd Freeholders, Cape May County received low bid bridge over Corson's Inlet from J. G. Champion, 5135 Knox St., Phila., $127,393. Noted Nov. 9.

Pa., Phila.—Bd. Pub. Wks. let contract steel bridge over Pennsylvania R.R. on Marcie St. to J. McMENAMY, $69,000. Noted Sept. 28.

Ind., Brazil—Clay County Comrs. let contract bridge in Lewis Township to C. A. RHODES, Cory.

Ind., Covington—City let contract 2 concrete abutments and moving old bridge to W. E. ALLEN, Hillsboro.

Minn., Bemidji—Beltrami County let contract 40 bridges over Ditch No. 36, 40 over Ditch No. 30 and 15 over Ditch No. 31 to D. M. SOWA, Baudette, $28,257. Noted Dec. 7.

Minn., Duluth—St. Louis County received low bid bridges over canals from Wausau Iron Co., $7,076.

Mont., Roundup—Musselshell County let contract new bridge on county road between Sects. 26 and 35, Township, 5-26, to SECURITY BRIDGE CO., Lewiston, Idaho.

Tex., Galveston—Galveston County let contract 4 rein.-con. bridges on Dickinson-Alta Loma Rd. to T. PARSONS, Galveston, 18.45c cu.yd. Noted Nov. 30.

Tex., Houston—Houston, Richmond & Western Ry. let contract bridges over Brazos and Colorado River in connection with proposed line from Houston to Garwood to PITTSBURGH BRIDGE CO., Farmers Bank Bldg., Pittsburgh.

Okla., Hobart—Kiowa County let contract 33 bridges and culverts to OKLAHOMA BRIDGE CO., 515 Paterson Bldg., Oklahoma.

Okla., Oklahoma—Oklahoma County let contract 6 bridges to OKLAHOMA BRIDGE CO., Oklahoma, $6,587. Noted Dec. 14.

Ore., Portland—City received low bid rein.-con. viaduct over tracks of Oregon-Washington Railroad & Navigation Co., from PORTER BROS. CO., Railway Exchange Bldg., $540,000. Noted Sept. 28.

Calif., Yreka—City let contract bridge over Klamath River to A. S. CALKINS & O. G. COOPER, $4,087.

WATER-WORKS

Proposed Work

Mass., Holyoke—Bd. Water Comrs. received report from W. S. Johnson, 101 Tremont St., Boston, Engr., on dam at White storage reservoir. About $40,000. P. Gear, Supt.

R. I., Providence—(Official)—Water Supply Bd., City Hall, receiving bids Jan. 3 stream control works for main dam of Scituate Reservoir on Pawtucket River, near Kent. Noted Nov. 16. (See adv.)

Ct., Bridgeport—Bridgeport Hydraulic Co. plans 4-mi. water mains. D. H. Hall, Supt.

Conn., Watertown—City voted $120,000 bonds to improve water-works. E. W. Wheeler, Supt. Noted Nov. 23.

N. J., Allenhurst—(Official)—C. E. King, Boro. Clk., receiving bids Dec. 26 pumping equipment.

N. J., Orange—State Bd. Health recommends installing filter plant at city reservoir, Milburn. A. Travis, Water Wks., Supt.

N. J., Skillman—Village to ask State Legislature to appropriate $35,000 additional water supply at State Village for Epileptics.

Pa., Allentown—(Official)—A. L. Reichenbach, Mayor, 39 North 7th St., receiving bids Dec. 30 two 6 000,000-gal. pumping engines, in pumping station. (See adv.)

Penn., Chester—Chester Water Co. making plans water system and reservoir. About $25,000. W. B. Chadwick, Supt.

Penn., Johnstown—Morrellville & Cambria Water Co. retained Chester & Fleming, Engr., Pittsburgh, to make plans filter plant, at F St. and Chandler Ave. H. C. Ramsey, Supt. Noted Dec. 7.

Ga., Lithonia—City sold $35,000 bonds for water and sewage systems. Noted Nov. 2.

Miss., Natchez—City plans new pumping station. T. A. Winchester, Supt.

La., Independence—City receiving bids Jan. 9 water system, including pumps, steel tower, reservoir, pumping station, hydrants, etc. X. A. Kramer, Magnolia, Miss., Consult Engr. W. H. Wilson, Mayor.

Tenn., Springfield—City votes Jan. 6 on $36,000 bonds to extend water-works. G. B. Shawver, Supt.

Ohio, Akron—Summit County plans reservoir in Tuscarawas River Valley. Address County Clk., Akron.

Ohio, Beshler—City plans reservoir, wells and standpipe. Bids in spring. About $33,000.

Ohio, Cambridge—Council receiving bids Jan. 10 bonds to build water-works. Noted Nov. 16.

Ohio, Lorain—Bd. Pub. Ser. receiving bids Jan. 3, 6 jewel filters, machinery, valves, piping, etc., for water system. L. M. Moore, Mayor. Noted Dec. 14.

Ohio, Nelsonville—(Official)—City receiving bids Jan. 6, 1 compound duplex pumping engine, 1 steam-driven air compressor, 1 air receiver, fort pieces, well health, etc. J. Hill, Dir. Pub. Ser.

Ind., Ft. Wayne—Bd. Pub. Wks. receiving bids Jan. 4 roof over city reservoir. G. B. Borsch, Supt.

Ind., Kokomo—City plans $420,000 bond issue to make water-works improvements. E. C. Elliott, Supt.

Mich., Detroit—Water Bd. plans filtration plant, capacity 320,000,000 gal. About $4,000,000. T. H. Leisen, Water Bd. Engr.

Ill., Averyville—R. Crozier, Engr., Peoria Water Works Co., estimates cost water mains Reservoir Heights at $29,000.

Iowa, Farragut—City plans water-works.

Ia., Forest City—(Official)—City defeated $15,-000 bonds reservoir and pumping station. Will vote again in Feb.

Ia., Independence—City receiving bids Jan. 9 water system. G. D. Warren, Supt.

Minn., Goodhue—City making plans water works. O. E. Kyllo, Village Clk. Noted Dec. 9.

Kan., Arcadia—(Official)—City defeated $30,-000 bonds for water-works. Noted Nov. 30.

Kan., La Crosse—City votes Dec. 28 on $40,-000, bonds to build water-works. W. B. Rollins, Railway Exchange Bldg., Kansas City, Mo., Engr. Noted Oct. 28.

N. D., Minot—City made plans rein.-con. reservoir, 3,000,000-gal. capacity. F. Bass, 244 Plymouth Bldg., Minneapolis, Engr. O. Knudson, Supt. Noted May 18.

Mo., Cameron—City making plans extension of water mains in Sewer Dist. No. 3. H. T. Lawrence, Mayor.

Mo., Joplin—(Official)—City does not plan water system as stated in issue of Nov. 9.

Tex., San Angelo—Tom Green County plans 2 dams on Concho River. Address County Clk., San Angelo.

Tex., San Antonio—City soon receives bids water-works. F. O. Kirby, 422 Ave. D., Engr. H. J. Weierhauser, Supt.

Okla., Mangum—City defeated $15,000 bonds for water-works improvements. L. Nicholson, Supt. Noted Nov. 30.

Okla., Norman—City voted $10,000 bonds. Part proceeds to be used to improve water-works. J. M. Wise, City Clk.

Wash., Ellensburg—Ellensburg Gas and Water Co. plans filter plant. W. W. Seymour, 324 Tacoma Bldg., Tacoma, Pres.

Wash., Seattle—Water Bd. recommended to Council to rebuild entire water supply in Ballard Dist., also mains in portions Kilbourne St. L. B. Youngs, Supt.

Ont., Brantford—Water Comn. plans to increase and purify water supply. F. Frank, Chn.

B. C., New Westminster—City plans bond issue to build water-works J. Aukes, Supt.

Bids In and Contracts Awarded

N. Y., Sonyea—P. J. Lang, Pres. Bd. Mgrs. Craig Colony for Epileptics, let contract additions and improving water system at Colony to C. A. FOOTE, Mt. Morris, $20,683. Noted Nov. 9.

Penn., Erie—(Official)—Bd Water Comrs. let contract 20,000,000-gal. pumping engine and 600 tons c.-i. pipe and fittings to R. D. WOOD & CO., Camden, N. J.; 24-in venturi meter to SIMPLEX VALVE AND METER CO., 112 North Broad St., Phila.; gate valves to EDDY VALVE CO., Waterford, N. Y. Chester & Fleming, Union Bank Bldg., Pittsburgh, Engr. Noted Nov. 23.

Penn., Philadelphia—Dept. Pub. Wks. let contract laying c.-i. water pipe on Rockland St. and Northeast Blvd. to McNICHOL PAVING AND CONSTRUCTION CO., 1923 Cherry St., $84,590. Laying foundations and piping at Lardner's Point and Queen Lake pumping stations to F. J. BOAS, 201 North Broad St., $37,953.

Fla., Plant City—Bd. Pub. Wks. let contract water-works to H. O. HOBBS, $4,965. Noted Mar. 9.

Tenn., Knoxville—City Comn. let contract horizontal pump to HOOVER, OWERS & RENTSCHLER CO., Hamilton, Ohio, $87,000.

Ohio, Cleveland—National Artificial Silk Co., 735 Central Ave., let contract filteration plant at 1000 Walworth Ave., to J. L. STEWART, 915 Illuminating Bldg., $7,500. Noted Dec. 14.

Ohio, Cleveland—F. H. Stephenson, Engr., c-o E. Shattuck, Comr. Purchases and Supplies, 219 New City Hall, let contract excavation Baldwin Reservoir, 125,000,000-gal. capacity to F. R. JONES, West 84th St. and Crescent Ave. About $250,000. Noted May 25.

Ohio, East Palestine—See item under "Light, Heat and Power."

Ohio, Shaker Heights—(Cleveland post office)—Village let contract water mains in portion North Moreland Blvd. to S. A. HADDAD, Cleveland. Noted Nov. 9.

Mich., Ann Arbor—City to extend water system by day labor. About $75,000. R. Spokes, Supt. Noted Nov. 16.

Mich., Holland—City to build 1,000,000-gal. reservoir by day labor. About $17,000. R. B. Champion, Supt. G. S. Williams, Ann Arbor, Engr. Noted Oct. 12.

Ill., River Forest—(Chicago post office)—City let contract improving water system to SULLIVAN MACHINERY CO., 122 South Michigan Ave., Chicago, $4,250. Noted Nov. 2.

Minn., Eveleth—City let contract 13,600 ft. of 16-in. c.-i. water main, to LAWRENCE & McCANN CO., $90,000.

Minn., Minneapolis—Aaron Carlson, Central Ave., let contract drilling deep well to S. SWENSON ARTESIAN WELL CO., 1323 Washington Ave. N.

N. D., Fargo—City let contract water mains in 11th and 2nd Ave. and 2nd St. to C. H. PORRITT.

N. D., Minot—City let contract drilling 10-in. well to S. SWENSON ARTESIAN WELLS CO., 258 Plymouth Ave., N., Minneapolis, Minn., $8.50 per ft.

Utah, Salt Lake City—City received low bid pumping station from R. C. Green, $14,960. Noted Nov. 30.

Ore., Astoria—Astoria Water Comn. let contract furnishing 2,000 ft. 6-in. c.-i. water pipe to OREGON IRON AND STEEL CO., Concord Bldg., Portland.

Water-Works (Continued)

Ore., Portland—City received low bid pump at Washington Park pumping station from Thompson Hydraulic Engine Co., $4,107.

Calif., Whittier—City received low bid water pipe from National Cast Iron Pipe Co., Sheldon Bldg., San Francisco, as follows: 2,624 ft. 10-in., 2,656 ft., 8-in., 1,568 ft. 6-in., Class "B," c.-i. pipe, $45.10 per ton; 4964 ft. 4-in. Class "B" pipe, $48.10 per ton; c.-i. pipe fittings, $72.60 per ton. Noted Nov. 30.

P. E. I., Charlottetown—City let contract pumping outfit to CANADIAN FAIRBANKS-MORSE CO., Montreal, Que.

SEWERS

Proposed Work

Mass., Lowell—City plans sewer in portion Varnum Ave. About $25,000.

N. Y., New York—(Bronx)—Boro. Pres., Municipal Bldg., Crotona Park, Tremont and 3rd Ave., receiving bids Dec. 28 sewers portions Throgs Neck Blvd., Layton Ave. and Eastern Blvd. D. Mathewson, Pres.

N. Y., New York—(Queens)—Boro. Pres., Queens Subway Bldg., Hunterspoint and Van Alst Ave., Long Island City, receiving bids Dec 29 sewers in portions Collins, Chichester, Oxford, Portland, Herald, Guoin, Atlantic, Lyon, Astoria Ave., Adriatic, 45th, Humphrey, McIntosh, Parcell St., Etna Pl. and Fresh Pond Rd. M. E. Connolly, Pres.

N. J., Mt. Morris—State Asylum for Insane plans disposal plant. About $40,000. B. D. Evans, M. D., Supt.

Penn., Allentown—(Official)—A. L. Reichenbach, Mayor, 39 North 7th St., receiving bids Dec. 26 storm water sewers in portions Tilghman, East Maple and East Clair St., Sumner Ave. and Oak and Howard Relief Sewers. (See adv.)

Penn., Franklin—Council making plans trunk sewer. J. Snow, City Engr.

Va., Richmond—Laburnum Corp. plans storm sewer system in Laburmun Park. About $12,000.

W. Va., Fairmont—City voted $30,000 bonds to extend and improve sewer system. S. B. Miller, City Engr. Noted Nov. 2.

N. C., Wilmington—City plans sewer portion Meadow St. D. L. Struthers, City Engr.

Ga., Cave Springs—City sold $20,000 bonds to build sewer and water systems. Noted Sept. 14.

Ga., Lithonia—See item under "Water-Works."

Fla., Tampa—City plans sewer in Parker St. R. D. Martin, City Engr.

Tenn., Kingsport—Kingsport Sewer Co., recently incorporatetd with $50,000 capital stock, plans sewer system.

Ky., Lewisville—City soon receives bids 7-in. sewer portion Preston St. About $30,000. D. R. Lyman, City Engr.

Ohio, Amherst—City receiving bids Jan. 23 sanitary sewer system in West Martin Ave. and West Side. About $8,000. A. G. Menz, City Clk. Noted Dec. 7.

Ohio, Canton—Council passed ordinance sanitary sewers in portions Clyde Pl. and Bedford Ave. W. E. Sarver, City Engr.

Ohio, Centerburg—Village votes Dec. 30 on $9,000 bonds to build sewage works.

Ohio, Cincinnati—Hamilton County made plans Mt. Auburn Sewer Dist. No. 1. About $500,000. Address County, Cincinnati.

Ohio, Elyria—City plans sewer in Sewer Dist. No. 2. C. M. Theobald, City Engr.

Ohio, Ironton—City plans sanitary sewer in 5th and Vine St. L. G. Howell, City Engr.

Ohio, Lima—City plans voting on $500,000 bonds to repair sewer system and disposal plant.

Ohio, Marion—City plans storm and sanitary sewers in Boone and Neal Ave. E. S. Oult, City Engr.

Ohio, Piqua—City plans sanitary sewer in Water St. A. Schroeder, City Engr.

Ohio, Sidney—City soon to let contract extending sanitary sewer. About $20,000. T. Blake, City Engr. Noted Oct. 26.

Ohio, Wauseon—State Bd. Health approved plans sanitary sewer system. G. Champe, Toledo, Engr.

Ohio, Youngstown—City plans sewer in Cooper Ave. F. M. Lillie, City Engr.

Ohio, Youngstown—City plans sewer in Hunter Ave. F. M. Lillie, City Engr.

Ohio, Youngstown—City plans sewer in Smithfield St. F. M. Lillie, City Engr.

Ind., Gary—City making plans sewers on West Side. Contract let in spring. About $250,000.

Ind., Lafayette—Bd. Pub. Wks. approved plans sewer laterals from main trunk line 6th Ward H. C. Overesch, City Engr.

Ind., Mishawaka—City plans sewers in West 10th and 13th St. C. Cole, City Engr.

Mich., Buchanan—City retained J. W. Toyne, Engr., South Bend, Ind., to make plans sanitary sewer system. Election in March to vote on bonds. Noted Nov. 9.

Mich., Escanaba—City having plans made sewage works in Stephenson Wells and Corcoran Sewage Dists. W. J. McDonald, City Engr.

Ill., Lincoln—City plans sewers in Wyatt Ave. and McLean St. About $4,860. W. C. Bates, City Engr.

Wis., Baraboo—City plans sewer in Rosaline St. H. E. French, City Engr.

Wis., Milwaukee—City plans to spend $1,460,000 for sewers during 1917. G. Stall, City Engr.

Ia., Burlington—(Official)—City receiving bids Jan. 4 sewer system in Hill Dist. About $40,000. C. E. Waterhouse, City Engr. Noted Oct. 19.

Ia., Wilton—City plans sewer system.

Kan., Winfield—(Official)—City making plans 1,750,000-gal. rein.-con reservoir.

N. D., Velva—City making plans sewer system.

Mont., Billings—City plans trunk sewer system. E. M. Sneckenberger, City Engr.

Mo., Carl Junction—City soon lets contract sewer system. A. W. McDowell, City Clk. Noted Nov. 16.

Mo., Higginsville—City receiving bids about Jan. 1 sewer system and disposal plant. About $50,000. Noted Dec. 7.

Mo., Joplin—(Official)—City plans sewage works. J. J. McAfee, City Engr.

Mo., Sikeston—(Official)—City receiving bids Dec. 22 extending sewer system. Noted Nov. 23.

Tex., Palestine—(Official)—City making plans sewer system and disposal plant. Noted Dec. 14.

Okla., McAlester—City plans sewers in Sewer Dist. No. 44. A. H. Kendrick, City Engr.

Okla., Yunne Wood—City plans sewers.

Idaho, Orafino—Council accepted plans sewer system. About $35,000. Sawyer Bros., Spokane, Wash. Noted Dec. 7.

Wash., Everett—(Official)—Council receives bids some time in March sewer in portion alley between Hoyt and Rucker Ave. H. Mummy, Jr., City Engr. Noted Nov. 30.

Calif., Los Angeles—Council passed ordinance sanitary sewers in Fountain Ave. and Seward St. Dist. H. Hamlin, City Engr.

Calif., Sacramento—Council passed ordinance sewers in Block 4, Boxler Tract, and alley south of Park Ave., also in 38th St. F. C. Miller, City Engr.

Calif., Santa Ana—City soon votes on $60,000 bonds to install outfall sewer to ocean.

Bids In and Contracts Awarded

Mass., Springfield—City rejected bids for Tatham sewer. Work will be done by day labor. F. H. Clark, City Engr.

N. Y., New York—(Richmond)—(Official)—C. D. Van Name, Boro. Pres., St. George, let contract sanitary sewer in portion Oxford Pl., to J. JOHNSON'S SONS, 455 Broadway, West New Brighton. Noted Nov. 30.

N. J., Palisades Park—Mayor and Council, Borough Hall, let contract complete sewer system to E. ENGLISH, Englewood, $25,264. Noted Nov. 23.

Pa., Donora—Council let contract sewer in South Donora to DONORA CONSTRUCTION CO., 1st and 2nd St., Donora.

Ohio, Marion—City let contract sanitary and storm sewer in Pleasant St., Cheney and Clover Ave. to KOHBARGER & HOYLES, $5,975; and Quarry and Patterson St. to F. DARST, $4,644. Noted Aug. 17 and Oct. 5.

Ohio, Shaker Heights—(Cleveland post office)—City let contract storm and sanitary sewers in Kemper Rd. to S. A. HADDAD, Cleveland. Noted Dec. 14.

Ohio, Tiffin—Bd. Pub. Ser. received low bid North Sandusky St. sewer from G. Stewarts, $5,867. Noted Dec 7.

Ind., Indianapolis—Bd. Pub Wks. let contract sewer Arsenal Ave. to COLUMBIA CONSTRUCTION CO., Indianapolis; Lambert St. and Blaine Ave. to SHEEHAN CONSTRUCTION CO., 2102 Columbia Ave. Noted Dec. 7.

Wis., Cuba—City let contract sewer system to E. H. HARDIN, Racine, $25,000.

Ia., Burlington—City received low bid sewer in Doemland St. from M. W. Daly. Noted Dec. 14.

Ia., Fayette—City let contract sewer to COMSTOCK & HANSON, Oelwein, $18,211. Noted Nov. 16.

Minn., Mankato—(Official)—City let contract sanitary sewer portion Vine St. to LUNDIN BROS., Mankato, $5,545. Noted Nov. 30.

N. D., Fargo—City let contract sewer in 9th St. to AIKEN CONSTRUCTION CO.

Mo., Kansas City—Bd. Pub. Wks. let contract sewer in 33rd and Elmwood Ave. to W. C. MULLINS, 1230 Montgall St., $86,000.

Mo., Kansas City—City let contract Sewer Dist. No. 413, Div. No. 3, to J. T. COUSINC, 1006 Olive St., $15,791.

Tex., Dallas—City let contract storm sewers in San Jacinto St. to L. R. CABELL, $8,454. Noted Dec. 7.

Tex., Lockhart—City let contract sewer system to MURPHY CONSTRUCTION CO., Texarkana, $34,400. Noted Dec. 7.

Tex., Quanah—City let contract sewer system and disposal plant to W. ELDRIDGE, Dallas, $24,358. Noted Nov. 9.

Okla., Stillwater—City let contract 5,590 ft. 10-in. sewer to T. GUDGEL, Stillwater, $9,550. Noted June 15.

Utah, Ogden—City let contract storm sewer in portion Madison Ave, to GIBBONS & REED, Salt Lake City, $23,607. Noted Dec. 7.

Utah, Salt Lake City—R. C. Green submitted low bid pump house for main trunk sewer at 8th North and 11th West St. at $14,960. Noted Nov. 30.

Wash., Ft. Flagler—City let contract sewer to H. A. COTTON, Port Townsend, $5,750.

GARBAGE

W. Va., Fairmont—City voted $5,000 bonds to build incinerator. A. Bowen, Mayor. Noted Mar. 2.

Tenn., Chattanooga—Dept Water and Sewers, Municipal Bldg., receiving bids Jan. 2 incinerator. E. D. Bass, Comr. Noted Nov. 30.

Ont., Ottawa—City to submit $50,000 by-law at January election garbage incinerator.

STREETS AND ROADS

Proposed Work

Mass., Marblehead—Marblehead Bd. of Trade plans shore boulevard.

Mass., Salem—City plans to extend Salem St. G. F. Ashton, City Engr.

Mass., Worcester—City plans to widen Belmont St. F. A. McClure, City Engr.

Ct., Manchester—City plans concrete sidewalks. About $22,500. J. F. Bowen, City Engr.

Ct., Willimantic—City plans to spend about $33,000 street improvements next year. R. E. Mitchell, City Engr.

N. Y., New York—(Bronx)—Boro. Pres., Municipal Bldg., Crotona Park, Tremont and 3rd Ave., receiving bids Dec. 28 improving portions Unionport Rd., Amethyst St. and Olmstead Ave. D. Mathewson, Pres.

N. Y., New York—(Brooklyn)—Boro. Pres., Borough Hall, receiving bids Dec 27 improving portions Benson, Caton, Ave. D, Ovington Ave., East 10th, East 12th, East 17th, East 34th, Powell, Tapscott, West 31st, 54th, 94th St., 400,000-gal. refined asphalt, liquid form; 200-ton, 2,000-lb. each, refined asphalt, containing packages; 60,000 "Grade 1" granite paving blocks; 6,000 bbls. portland cement; 2,200 tons limestone or other suitable inorganic dust; 20,000 sq.ft. bluestone flagging, 1,000 cu yd. paving gravel; 13,000 gal. residuum oil; 300 tons paving pitch; 12,000 cu.yd. asphalt sand; 4,000 cu.yd. paving sand; 4,000 cu.yd. binder stone; 4,000 cu.yd. 1½-in. broken stone for concrete. L. H. Pounds, Pres.

N. Y., Goshen—Bd. Supervs. Orange County approved plans to improve road through Washingtonville. County's share of cost, $12,005. Address County Clk., Goshen.

N. Y., Gowanda—Village plans to pave 3rd St. concrete. About $14,000. F. J. Herzog, Clk.

N. Y., New York—(Richmond)—Boro. Pres., Borough Hall, St. George, New Brighton, Staten Island, receiving bids Dec. 29 repaving portions Water, Thompson and Front St. C. D. Van Name, Pres.

N. Y., Penn Yan—Yates County plans to improve 10 mi. Penn Yan-Potter Center Highway, about $100,000; 2.7 mi. Penn Yan-Willow Grove Highway, $15,000; Italy Hollow-Naples Highway $4,000. Address County Clk., Penn Yan.

N. J., Atlantic City—City made plans and soon receives bids boulevard entrance at Virginia, Adriatic and Indiana Ave., Venice Park. Project includes curbs, driveway and bridges. About $100,000. J. N. Hackney, Engr. Noted Nov. 9.

N. J., Collingswood—Borough plans to spend $140,000 paving. J. Remington, Haddonfield, Engr. Noted July 13.

N. J., Frehold—(Official)—Bd. Freeholders Monmouth County, Court House, receiving bids Jan. 10, Sec. Keyport-RedBank Rd. warrenite with concrete base, Raritan and Holmdel Townships, 24,381 sq.yd. surface and same amount foundation. C. E. Close Freehold, County Clk. G. D. Cooper, 60 Broad St., Red Bank, Engr. Noted Nov. 2. (See adv.)

N. J., Hackensack—Bd. Freeholders Bergen County sold $608,000 bonds to improve roads. Address Clk., Hackensack.

N. J., Salem—Salem County receiving bids about Jan. 1, 2 mi. amiesite road on 6th Sect. Malage and Penns Grove Rd. H. B. Keasby, Engr.

N. J., West Orange—Town plans to curb, gutter and pave portions Oxford Terrace and Orange Heights and Tremont and Gregory Ave. G. W. Foster, Clk.

Pa., Beaver—Beaver County plans to improve 14 mi. desert road on Lincoln Highway. About $300,000. Address County Clk., Beaver.

Pa., New Eagle—Borough made plans 2,780 lin. ft. brick paving on Main, Pine and Hemlock St. About $20,000. A. L. McVickar, Monongahela, Engr. Noted Oct. 19.

Pa., Pittsburgh—City plans to curb and pave portion South Side Ave. About $19,000. E. J. Martin, City Clk.

Pa., Scranton—Dept. Pub. Wks. plans to curb and pave Columbia and Delaware St. and Irving Ave., asphalt and stone block. About $54,589. W. Schunk, City Engr.

Md., Baltimore—City plans to widen Garrison Lane between Edmondson Ave. and Baltimore St. R. M. Cooksey, City Engr.

Streets and Roads (Continued)

Va., Rustburg—Campbell County, Deneca Dist. making plans improving roads. About $20,000. Address County Clk., Rustburg. Noted May 18.

N. C., Burgaw—Pender County receiving bids in January, 50 mi. road. About $30,000. Address County Clk., Burgaw. Noted Nov. 2.

Fla., Bartow—Polk County votes in December on $325,000 bonds to build 50-mi. road in Winter-Haven Special Rd. and Bridge Dist. Address County Clk., Barstow. Noted Aug. 31.

Fla., Jacksonville—City plans to pave portion Elm and Center St., brick. T. H. Landon, City Engr.

Fla., Panama City—(Official)—Bay County voted $375,000 bonds to build system of improved roads. Bids about Feb. 1. G. Sumner, Panama City, Engr. Noted Sept. 28.

Ala., Birmingham—Jefferson County soon receives bids on revised plans 15 mi. high-way from Wylam to Warrior River near mouth Deer Creek or Fish Trap Branch. G. H. Clark, Birmingham, City Engr. Noted Nov. 9.

Miss., Lexington—Highway Comrs. Rd. Dist. No. 5, Holmes County, receive bids about Jan. 1, Tchula-Cruger Highway, about 19.5 mi. J. H. Fuqua, Lexington, Clk.

Ky., Bardstown—Nelson County to sell $55,000 bonds to build roads. Address County Clk., Bardstown. Noted Apr. 27.

Ky., Franklin—City plans election to vote on $20,000 bonds to pave streets.

Ky., Irvine—City voted bonds to improve streets.

Ky., Wickliffe—Ballard County to let contract in April, 28 mi. gravel road. About $84,000. G. O. Johnson, County Clk., Wickliffe.

La., Crowley—Acadia Parish, Road Dist. No. 1, votes Dec. 30 on $400,000 bonds to build roads. Noted Nov. 16.

Miss., New Augusta—Bd. Supervs. Perry County voted $200,000 bonds to build roads. Address County Clk., New Augusta.

Ohio, Alliance—City plans to pave Hazen Rd. between Alliance-Marlboro Rd. and Limaville. W. Shidler, City Engr.

Ohio, Barberton—City soon receives bids paving various streets. H. W. Alcorn, City Engr.

Ohio, Bellaire—City plans repaving Belmont St. and grading West Washington St. A. J. Norton, City Engr.

Ohio, Bellaire—City making plans paving Crescent, 29th and Guernsey St. A. J. Norton, City Engr.

Ohio, Bellefontaine—Council petitioned to pave portion Buckingham Ave. brick. C. A. Inskeep, City Engr.

Ohio, Bucyrus—Crawford County soon receives bids improving Weidmeyer Rd. About $28,492. H. Keller, Court House, Bucyrus, Engr.

Ohio, Cincinnati—Hamilton County receiving bids Dec. 29 improvement of Clark and Giben Rd. in Symmes Township. Address County Clk., Cincinnati.

Ohio, Cincinnati—Hamilton County making plans to improve Salem Pike. About $25,000. W. H. Boch, County Surv., Cincinnati. Noted Sept. 28.

Ohio, Cincinnati—City soon receives bids paving portion Madison Rd., wood block, $251,666, brick $203,766. F. S. Krug, City Engr.

Ohio, Cincinnati—City plans improving portion McMillan St. F. S. Krug, City Engr.

Ohio, Cincinnati—City soon receives bids paving Delta and Linwood Ave., asphalt or bitulithic. About $31,414. F. S. Krug, City Engr. Noted Dec. 14.

Ohio, Cleveland Heights—(Warrensville post-office) Associated Investment Co., making plans improving portion Taylor Rd. and 20,000-sq.ft. stone sidewalk on portion Mayfield Rd. About $160,000. F. A. Pease Engineering Co., Marshall Bldg., Cleveland, Engr.

Ohio, Crooksville—(Official)—Citizens defeated $9,000 bonds to improve streets. Noted Dec. 7.

Ohio, Defiance—City soon receives bids paving several streets. About $67,000.

Ohio, Delaware—City soon receives bids paving Liberty St. G. S. Irwin, City Engr.

Ohio, Fremont—City plans resurfacing Front, Garrison and Burchard St., asphalt. C. A. Hochenedel, City Engr.

Ohio, Hamilton—Butler County making plans grading and paving Springdale Pike. About $100,000. Address County Clk., Hamilton.

Ohio, Kent—City receiving bids about Jan. 1, 2,500-ft. brick paving portion Lake St. E. S. Royer, Engr.

Ohio, Massillon—(Official)—City defeated $58,000 bonds improving portion Main St. Noted Oct. 12.

Ohio, Matamoras—City receiving bids Dec. 23 improving various streets. D. R. Bradfield, Village Clk.

Ohio, Middletown—City plans to pave portion Park Dr., concrete. W. C. Morrison, City Engr.

Ohio, New Concord—City receiving bids Dec. 30 paving and grading Liberty St. About $65,000. T. E. Connar, 923 Linden Ave., Zanesville, Engr.

Ohio, Springfield—City made preliminary plans paving 22 streets. M. J. Bahin, Ch. Engr.

Ohio, Wooster—City soon receives bids paving Pearl and South College St. H. U. Mowery, City Engr.

Ind., Goshen—City plans to pave portion 8th St., Parkside. J. W. Haverly, City Engr.

Ind., Huntington—Bd. Comrs. Huntington County soon receives bids Beardsley Rittenhouse Rd. in Rock Creek Township. Address County Clk., Huntington.

Ind., New Albany—City plans paving portion Oak St. S. T. Mann, City Engr.

Mich., Benton Harbor—Benton Township, Berrin County, voted $100,000 bonds to build roads. Address County Clk., Benton Harbor.

Mich., Nashville—Village voted bonds to pave portion Main St. Noted Nov. 30.

Ill., Canton—Fulton County plans to improve about 15 mi. State-Aid roads next year. E. F. Motsinger, Canton, County Supt. Highways.

Ill., Catlin—Town plans to pave portion Sandusky St. About $8,000 or $9,000.

Ill., Forest Park—City received no bids paving 12th St. and Desplaines Ave. R. E. Williams, 118 North La Salle St., Chicago, Engr. Noted Nov. 16.

Ill., Waukegan—City plans paving Stewart St. About $12,892. M. J. Douthitt, City Engr.

Wis., Chilton—(Official)—City plans election in April to vote on $500,000 bonds to build trunk roads. A. J. Pfeffer, City Clk. Noted Dec. 7.

Wis., Eau Claire—(Official)—Eau Claire County election Apr. 3 to vote on $750,000 bonds to build 110 mi. concrete roads. J. H. Nygaard, Eau Claire, Audr. Noted Dec. 14.

Wis., Portage—City receiving bids in February 40,000 sq.yd. paving, 23,000-lin.ft. curb and gutter, brick, concrete or bitulithic. H. V. Tennant, City Engr. Noted Dec. 14.

Wis., Racine—Bd. Superv. Racine County appropriated $30,257 improving state highways in county and $8,000 maintenance prospective system highways. Work to be done under supervision State Highway Comn., Madison. Noted Apr. 13.

Wis., Shawano—City soon votes on $200,000 bonds to build roads.

Wis., Tomah—Council plans paving, brick, portion McLean, Kilbourn, Superior Ave. and Washington St.

Ia., Grundy Center—(Official)—Bd. Pub. Wks. receiving bids Jan. 8, 45,000 sq.yd. pavement. About $80,000. Noted Nov. 16.

Ia., Storm Lake—City plans to curb and pave Ontario and 4th St., College Ave. and Shore Rd. J. E. Buland, City Clk.

Minn., Albert Lea—State Highway Comn. appropriated $23,100 of Federal Aid fund to Freeborn County. Same will be used to improve main road between Albert Lea and northern county line. Address County Clk., Albert Lea.

Minn., Duluth—St. Louis County plans to spend about $746,000 improving roads next year. O. Halden, Duluth, County Audr.

Minn., Minneapolis—City plans paving portion Washington Ave. F. W. Cappelin, City Engr.

Minn., Montevedeo—Chippewa County plans trunk line road. About $25,000. J. J. Stennes, Montevideo, County Audr.

Minn., St. Paul—Council adopted ordinance appropriating $24,000 paving street intersections on Lexington Ave. from Summit Ave. to Como Pk. Oscar Claussen, City Engr.

Kan., Chatfield—City plans improving Chatfield Pl. B. C. Wells, City Engr.

Kan., Clay Center—(Official)—Council sold bonds for paving various streets. H. G. Van Slyke, Clay Center, County Clk. Noted Dec. 7.

Kan., Hutchinson—City plans to pave about 15,000 sq.yd. 11th St. G. L. McLane, City Engr.

Kan., Kansas City—City receiving bids Jan. 11 improving Matoon and Reedy Rd. M. M. Barclay, Engr.

Kan., Topeka—(Official)—W. S. Gearhart, State Engr., receives bids about May, hard surface highway between Topeka and Kansas City.

N. D., Mandan—Morton County plans to build about 100 mi. highway next year. L. Nichols, Mandan, Audr.

Mont., Great Falls—(Official)—Cascade County voted $200,000 bonds for road construction. Bids about February.

Mo., Chillicothe—City making plans improving portion 9th St., brick and asphalt. J. O. Broddus, City Engr.

Ark., Helena—Phillips County plans concrete road from Henela to Marvell. Address County Clk., Helena.

Ark., Lake Village—Chico Co. plans voting on $250,000 bonds to build highways. Address County Clk., Lake Village.

Tex., Anardarko—Caddo County plans election to vote on bonds to build 11 mi. hard surfaced roads. Address County Clk., Anadarko.

Tex., Beeville—Bee County plans Eagle Pass Highway between Eagle Pass and Rockport, about 240 mi. Address County Clk., Beeville.

Tex., Brady—McCulloch County, Boca Dist., voted $16,000 bonds to build roads. Address County Clk., Brady. Noted Nov. 23.

Tex., Brady—McCulloch County, Melvin Dist., voted $30,000 bonds to build 20 mi. road. Address County Clk., Brady. Noted Nov. 23.

Tex., Dallas—City plans to pave portions 5th, 10th and Montreal St. H. Moseley, City Engr.

Tex., Canyon—Randall County plans election to vote on $100,000 bonds to build roads. Address County Clk., Canyon.

Tex., Denton—City soon lets contract paving 15,000 sq.yd., macadam. J. S. Neibert, City Engr.

Tex., Galveston—Galveston County soon lets contract 43,700 sq.yd. asphalt paving and for labor only on 2,300 sq.yd. brick paving. Address County Clk., Galveston.

Tex., Houston—Council plans sidewalks on portion House St.

Tex., San Angelo—City plans to issue $25,000 bonds to repave number streets, wood block. H. M. Garden, City Engr.

Tex., San Antonio—Jones Ave. Impvt. Com. plans to improve 2 mi. Jones Ave. and to bear part cost. O. O. Luter, Secy. A. C. Pancoast, City Engr.

Tex., Snyder—City plans to pave Public Sq. and principal streets.

Okla., Chickasha—Grady County plans issuing $1,000,000 bonds to build hard surface roads. Address County Clk., Chickasha.

Okla., Curtis—(Official)—Curtis Township defeated bonds to build roads.

Okla., Tahlequah—Cherokee County election Dec. 22 to vote on $50,000 bonds to build roads. J. R. Miller, Tahlequah, Clk. Noted Dec. 7.

Idaho, Challis—Custer County voted $100,000 bonds to build roads. Address County Clk., Challis. Noted Sept. 14.

Ariz., Tucson—Bd. Supervs. Pinal County appropriated $20,000 to build road from Pinal County line to camp of Daily Arizona Consolidated Mining Co. Address County Clk., Tucson.

Wash., Bellingham—Council plans improving portion Cornwall and Kentucky Ave. W. H. North, City Engr.

Wash., Seattle—City and Park Bd. plans to improve 1½ mi. Cheasty Blvd. A. H. Dimock, City Engr. R. Cotterill, Secy. Park Bd.

Ore., Astoria—City Rd. Dist. appropriated $17,000 to improve road leading from city around Smiths Point. G. T. McCrean, City Engr.

Ore., Hillsboro—Washington County, 30 road districts, voted $55,000 to build roads next year. E. C. Luce, Hillsboro, Clk.

Ore., The Dalles—Wasco County Court Advisory Bd. retained J. A. Elliott, Engr., Rowena, to make plans road work next year. About $260,000 bonds to be sold. L. B. Fox, The Dalles, Clk. Noted Dec. 7.

Calif., Bakersfield—City soon lets contract paving portions 23rd and Summer St., asphalt; also building concrete curbs, cement sidewalks and culverts. R. B. Ray, City Engr.

Calif., Bakesfield—Kern County sold $500,000 bonds to build highways. Address County Clk., Bakersfield.

Calif., Brawley—City plans road to connect Glamis with Blythe and Ehrenberg, Ariz. Address City Engr.

Calif., Colusa—City Trustees passed resolutions to grade and gravel portions Jay, 9th, Oak, Parkhill St. and concrete sidewalks on 6th St.

Calif., Hanford—City plans to curb and pave portions Harris, Parks, Ivy and 7 other streets, concrete; also rein.-con. storm sewer portions Pouty, Ivy, Bush and other streets. E. M. Lynch, Glendale, Engr. Noted Dec. 7.

Calif., Martinez—Contra Costa County making plans concrete highway from Walnut Creek northerly about 11 mi. R. R. Arnold, Martinez, County Supervr.

Calif., Riverside—Riverside County plans 4 mi. concrete road in Beaumont Dist. About $40,000. C. R. Twining, Riverside, Engr.

Calif., Sacramento—Highway Comn. of Sacramento County plans 1.75 mi. road on Randall Island. Address County Clk., Sacramento. Noted Oct. 26.

Calif., Stockton—City plans to improve streets in district bounded by South, Aurora and 9th St. and Toll Rd., curbing, guttering, sidewalks and paving, macadam. H. T. Compton, City Engr.

Calif., Willows—Glen County, Mendocino County and Forest Service plan highway from Willows to coast. Address County Clk. of Glen County, Willows.

Ont., Niagara Falls—City plans widening portion Queen St.

Ont., Ottawa—City plans Ottawa-Prescott Highway, concrete.

B. C., Delta—MacDonald & Burmett, New Westminster, made survey road from Reit Rd. to American boundary around English Bluff. N. McDarmid, City Clk.

B. C., North Vancouver—Council plans improving Keith Rd. About $8,450.

Bids In and Contracts Awarded

N. Y., New York—(Brooklyn)—(Official)—L. H. Pounds, Boro. Pres., Boro. Hall, let contract improving portion West 15th St. to **CRANFORD CO.**, 52 9th St., rejected bids improving East 34th St. Noted Nov. 30.

N. Y., New York—(Richmond)—(Official)—C. D. Van Name, Pres., Borough Hall, St. George New Brighton, let contract improving portion Elliott Ave., to **J. E. DONOVAN**, 2205 Richmond Terrace, Port Richmond, $8,754. Noted Dec. 14.

Streets and Roads (Continued)

N. Y., Rochester—Bd. Contract and Supply let contract paving Marshall St., asphalt, to WHITMORE, RAUBER & VICINUS, $18,281; paving Howell St., asphalt, to ROCHESTER VULCANITE PAVEMENT CO., $15,858.

N. J., Newark—(Official)—Bd. Street and Water Comrs. received low bid improving portions 4th and North 2nd St. from C. S. CARRICINO, Hawthorne Ave. About $7,000. Noted Dec. 7.

N. J., Salem—(Official)—Bd. Freeholders, Salem County, let contract 2nd Sect. Malaga-Pennsgrove Rd., to FOX & POWELL, Ocean City, $15,696. Noted Nov. 23.

Pa., McKeesport—Council let contract paving and grading portion Irwin St. to P. F. RHOADES & SON, 810 Walnut St., Versailles. About $32,000. Noted Nov. 2.

W. Va., Bluefield—Council let contract resurfacing East Princeton Ave. to R. F. BAKER, $9-500.

W. Va., Keyser—Mineral County let contract 4-mi improved road to H. W. KAYLOR, Hagerstown, Md., $85,000.

W. Va., Lewisburg—Greenbrier County let contract 7 mi. concrete highway to SANDS & CLINE, Weyers Cave, Va.

N. C., Wilmington—(Official)—City plans to pave Front St. by day labor. D. L. Struthers, City Engr. Noted Dec. 7.

S. C., Florence—City let contract macadam paving on Church St. to L. MORGAN JOHNSON, Arlington, Va. Noted Oct. 19.

Fla., DeLand—Volusia County let contract 9 mi. asphalt paving DeLand-Daytona Rd. to F. G. PROUDFOOT. Noted Nov. 2.

Fla., Ormond—Bd. Trustees let contract paving to ALABAMA PAVING CO., Birmingham, Ala., $1.38 per yd. Noted Nov. 9.

Ky., Ashland—City let contract grading and paving to HUNT-FORBES CONSTRUCTION CO., Gaylord Bldg., $40,000.

Ky., Franklin—Simpson County let contract 7 mi. pike on Springfield Rd. to C. HENSON.

Ky., Harrodsburg—City let contract improving various streets (state aid), to R. M. BRAWNER.

Ohio, Columbus—State Highway Comn. relet contract building 7.46 mi. Old National Pike in Guernsey County to H. RENICK. Road to be built on force account plan.

Ohio, Marion—Marion County let contract paving roadways 25 bridges to MODERN CONSTRUCTION CO., Fremont; 10 bridges, STANDARD ENGINEERING CO., Toledo; 6 bridges to OHIO CONCRETE SUPPLY CO., Fremont. Bonds for $36,000 recently sold for work.

Ohio, Napoleon—Henry and Wood Counties let contract county line road to GAGHAN, McCLURE & STROHL, Custar, $15,213; Henry-Fulton County Rd. to O. L. SMITH, Leipsic, $6,211. Noted Nov. 30.

Ohio, Norwalk—Huron County let contract 3 mi concrete road to A J. FRUNCH, Wakeman, $37,000. Noted Nov. 30.

Ohio, Shaker Heights—(Cleveland post office)—Village let contract improving North Moreland Blvd., to S. A. HADDAD CO., Cleveland. Noted Nov. 2.

Ohio, Shaker Heights—(Cleveland post office)—City let contract improving portion Kemper Rd. to S. A. HADDAD CO., Cleveland. Noted Dec. 7.

Ohio, Wilmington—Clinton County let contract 5 mi. macadam paving on Wilmington-Hillsboro Rd. in Green Township, to BEAN & CO. Highland, $20,849.

Ind., Connersville—Fayette County let contract gravel road in Posey Township to G. M. HOOPES, Anderson, $17,944. Noted Nov. 23.

Ind., Delphi—Carroll County Comrs. let contract gravel road in Madison Township to C. T. MINNEX, Flora, $4,000. Noted Nov. 30.

Ind., Kokomo—Howard County comrs. let contract stone road in Howard Township to J. H. WATSON & CO., $11,771. Noted Nov. 23.

Ind., Vincennes—Knox County Comrs. let contract 7,128-ft. gravel road to C. W. BEARD, Oaktown. Noted Nov. 30.

Ind., Warsaw—Kosciusko County let contract concrete road in Van Buren Township to HUTTON HARRIS CO., North Vernon, $35,618. Noted Nov. 30.

Mich., Flint—(Official)—City will pave streets by day labor. Noted Dec. 7.

Ill., Rock Island—Bd. Local Impvts. let contract paving portion 20th St. to TRI-CITY CONSTRUCTION CO., Davenport, Ia., about $8,657. Noted Nov. 2.

Ill., Springfield—City let contract paving portion West Grand Ave. to J. E. BRETZ, 224 East Union St., $12,072. Noted July 20.

Ia., Des Moines—City let contract grading portion 6th Ave. to G. O. THOMPSON. Noted Nov. 23.

Kan., Beloit—(Official)—City received low bid 40,600 sq.yd. paving from McGuire & Stanton Construction Co., Leavenworth, $104,860, 2½-in. brick and $109 732, 3-in. brick.

Neb., Havelock—City let contract paving Dist. No. 3 to ABLE CONSTRUCTION CO., Lincoln.

Neb., Lincoln—City let contract paving Woodcrest Addition to MARTIN CONSTRUCTION CO., about $50,000.

Mo., Maplewood—Bd. Pub. Impvts. let contract paving Lanham Ave. to CARBON CONSTRUCTION CO., $4,000.

Mo., Sedalia—Special Rd. Dist No. 12 let contract macadam road to L. CARPENTER. W. H. Powell, 215 East Broadway, Comr.

Tex., Dallas—City Comn. let contract paving portion 12th St. to STANDARD ENGINEERING AND CONSTRUCTION CO., about $56,470. Noted May 4.

Tex., Dallas—City let contract paving Commerce St. Viaduct to TEXAS BITULITHIC CO., $2.55 per sq.yd.

Tex., Dallas—City Comn. let contract paving portion Harrison Ave. to STANDARD ENGINEERING AND CONSTRUCTION CO., about $11,333; Hibernia St., VIBROLITHIC CONSTRUCTION CO., about $8,875; Woodlawn Ave., WESTERN PAVING CO., $4 900.

Idaho, Lewiston—Nez Perce County let contract surfacing Lewiston Hill Highway to G. H. KESTER, $26,532.

Wash., Camas—City let contract improving 4th St. to UNITED CONSTRUCTION CO., $13,964.

Wash., Mt. Vernon—(Official)—City let contract paving 4th St., N. and Highland Ave. to SKAGIT CONSTRUCTION CO., Mt. Vernon, about $21,814. Noted Nov. 4.

Calif., Bakersfield—Kern County let contract paving portion Bakersfield-Taft Rd. to G. S. BENSON & SONS, $47,720. Noted Nov. 30.

Calif., Daly City—City received bids street improvements Vista Grande Tract No. 3 from Ransome-Crummey Co., First National Bank Bldg., Oakland, $15,874, and McGillivray Construction Co., 717 Capitol National Bank Bldg., Sacramento, $16,181.

Calif., Los Angeles—City let contract improving Seneca Ave. to W. LIDDINGTON, 420 East 6th St., about $8,209.

Calif., Los Angeles—City let contract improving portion 1st St. to FAIRCHILD-GILMORE-WILTON CO., Pacific Electric Bldg., about $6,681. Noted Dec. 14.

Calif., Los Angeles—City let contract improving portion Kent St. to H. M. WELLS, about $8,008.

Calif., Pasadena—City let contract paving portion Madison Ave. to J. E. HADDOCK. Noted Nov. 30.

Calif., San Diego—City let contract improving portion Madison Ave. to G. R. DALEY, 405 McNeece Bldg., about $16,360.

Calif., San Francisco—(Official)—City to pave portion Battery St., wood block, by day labor. Noted Nov. 23.

Calif., San Rafael—(Official)—Bd. Supervs. Marin County let contract improving Bolonas-San Rafael Highway to S. P. BROWNLEE, Kentfield, $9,435. Noted Nov. 30.

Calif., Santa Ana—(Official)—Orange County rejected bids Brea-Olinda Rd. Noted Nov. 23.

Calif., Santa Ana—City let contract 3 mi. coast boulevard to L. G. GARNSEY, 108 West 6th St., Los Angeles, $16,814. Noted Dec. 7.

Calif., Upland—City let contract improving portion Mountain Ave. to W. C. CLINE and E. ROBBINS, Upland, about $25,305. Noted Dec. 14.

Calif., Ventura—Ventura County let contract improving Div. 4. Piru to county line road to MESMER & RICE, Marsh-Strong Bldg., about $14,266.

INDUSTRIAL WORKS

Proposed Work

Vt., Rutland—Dodge Bros. granted permit 118x310-ft. warehouse. About $300,000.

Mass., Boston—Daniel Russel Boiler Works plans 1-story boiler factory. Monks & Johnson, 78 Devonshire St., Arch.

R. I., Woonsocket—Gold Mark Knitting Co., 83 Railroad Ave., plans 3-story, 43x105-ft. mill. W. F. Fontaine, 285 Main St., Arch. Noted Nov. 30.

N. Y., Bluff Point—Hotel Champlain Co., c/o M. Weatherwax, D. & H. Bldg., Albany, making plans 3-story Laundry. $30,000.

N. Y., Buffalo—Buffalo Foundry and Machine Co., East Ferry St. and Fillmore Ave., making plans 3-story, 53x243 ft. storage building and pattern shop. About $50,000. R. J. Reidpath & Son, Builders' Exchange, Arch.

N. Y., Buffalo—Houck Manufacturing Co., 1700 Elmwood Ave., plans 2 factory buildings, 3-story, 300x60 ft. R. J. Reidpath & Sons, Builders' Exchange Bldg., Arch.

N. Y., Buffalo—Pierce Arrow Motor Co., 1665 Elmwood Ave., plans 1-story factory, $10,000.

N. Y., Cobleskill—New York State School of Agriculture plans dairy. About $35,000. L. F. Pilcher, Capitol, Albany, Arch.

N. Y., New York—(Bronx)—American Silk Label Manufacturing Co., 169th St. and Park Ave., plans factory. Timmins & Chapman, 315 5th Ave., Arch.

N. Y., New York—(Brooklyn)—Long Island State Hospital, care of State Hospital Comn., Albany, receiving bids Dec. 27, 2-story, 44x100-ft. brick storehouse and cold-storage building in Clarkson St. About $50,000. L. F. Pilcher, Albany, State Arch.

N. Y., New York—(Manhattan)—(Official)—Century Pump and Machine Co., 426 3rd Ave., receiving bids 1-story brick factory at 6th Ave. and 46th St. Boyle & Prowler, Arch.

N. Y., New York—(Manhattan)—A. W. Smith, c-o Jacobs & Simon, 1307 Broadway, making plans 1-story garage. Hurwitt, Landsman & Bartes, 230 Grand St., Arch.

N. Y., New York—(Richmond)—Proctor & Gamble Mfg. Co., made plans 2-story, 102x160 ft., factory at Port Ivory, $35,000.

N. Y., Rome—Rome Brass and Copper Co., Bouck St. plans 1-story casting shop.

N. J., Camden—Camden Iron Works, Cooper Creek and Line St., made plans 1-story shop. $15,000.

N. J., Camden—New York Shipbuilding Co., 50 Church St., New York, plans to enlarge plant at Camden. About $2,000,000.

N. J., Jersey City—Grymes Engineering Co., Ft. Morris, Jersey City, plans marine and ship building plant. Company now negotiating with City Comn. for lease of about 8 acres South Cove Dist. and proposes initial payment of $100,000 dredging and bulkhead work.

N. J., Jersey City—M. W. Kellogg Co., 117 Westside Ave., making plans 1-story addition, $15,000. McCoy Iron Works, Seaman St., Perth Amboy, Engr.

N. J., Newark—A. Fink & Sons, 129 Belmont Ave., making revised plans 2-story, brick or terra cotta and steel cold-storage and smoke house building, Elizabeth Ave. Glas & Tidestrom, 133 East 16th St., New York, Arch. and Engr.

N. J., Paulsboro—I. P. Thomas, Drexel Bldg., Phila., making plans 3-story factory. About $50,000. Seaboard Construction Co., Witherspoon Bldg., Phila., Arch.

Penn., Bethlehem—Silvex Co., 170 Madison Ave., plans being made, 1-story, 60x135-ft. factory, $35,000. W. F. Barstow & Co., 50 Pine St., New York, N. Y., Arch. Noted July 6.

Penn., Bristol—Rohn & Haas, 2522 South Western Ave., Chicago, purchased land on Delaware River and will build plant.

Penn., Bristol—D. F. Waters, 53 Western St., Phila., plans dye plant on canal.

Pa., Lancaster—Herr & Co., 7 East King St., plans 4-story warehouse. M. R. Evans, 10½ Orange St. Arch.

Penn., Lebanon—Yocum Bros., 4th and Walnut St., plans 2-story factory. G. L. Gerhard & Sons, 619 Penn St., Reading, Arch., $10,000.

Penn., Littlestown—Hanover Creamery Co., 37 York St., plans 1-story, 30x78-ft. ice plant and milk condensory, $10,000. B. C. Starr, Arch.

Pa., Mt. Carmel—H. Schloss, Inc., 41 West Ave., making plans 4-story factory. W. H. Lee, Dime Trust Bldg., Shamokin, Arch., $25,000.

Pa., Phila.—Wilson & Co., c/o W. Starr, 138 North Delaware Ave., made plans 4-story packing house at 827 Callowhill St. C. T. Barnett, c/o owner, Arch. Noted Oct. 12.

Pa., Pittsburgh—Page Bros. & Co., making plans 2-story, 50x225 ft. storage building. About $50,000. Paul Irwin, Renshaw Bldg., Arch.

Penn., Wheatland—American Sheet and Tin Plate Co., Frick Bldg., Pittsburgh, plans box factory. G. C. Kimball, Frick Bldg., Pittsburgh, Engr.

Md., Baltimore—L. Gordon & Sons, 228 North Front St., plans 4-story, 32x160-ft. factory, $10,000. L. Levi, Real Estate Trust Bldg., Philadelphia, Arch.

Md., Baltimore—Rosenbloom & Levy, 718 West German St., made plans 2-story, 40x150-ft. warehouse, $30,000. W. Geiske and F. Thomas, Gunther Bldg., Arch. Noted July 6.

Wash., D. C.—G. S. Zepp made plans six 2-story warehouses, 122-132 Q St., N. E. About $30,000. Speiden & Speiden, 1493 New York Ave., N. W., Arch.

Va., Lynchburg—National Mattress Co. to rebuild factory destroyed by fire. About $12,000. W. T. McNamara, Jr., Pres. and Gen. Mgr.

Va., Norfolk—F. O. Smith Shipbuilding and Drydock Co. plans plant. J. R. Seemer, Gen. Mgr.

Va., Norfolk—Southern Transportation Co., Commercial Trust Bldg., Phila., purchased site on eastern branch Elizabeth River shipbuilding plant. About $200,000.

Va., Richmond—P. Lorillard Co., 119 West 40th St., New York, plans addition to tobacco plant, 23rd and Main St. About $60,000 or $75,000.

Va., Saltville—Matheison Alkali Co., New York, making plans 1-story plant, about $100,000. G. R. Ragan, Terry Bldg., Roanoke, Arch.

W. Va., North Mountain—Staunton Clay Products Co., Newark, Ohio, plans 80x96-ft., 45x90-ft. and 46x720-ft. plant. K. R. Forry c/o Scheidler Machine Works Co., Newark, Arch. and Constr. Engr. in charge.

N. C., Gastonia—R. G. Rankin plans to organize company with $150,000 capital stock, to build cotton mill.

S. C., Greenville—Saluda Manufacturing Co. will build mill. F. H. & J. G. Cunningham ar. incorporators.

Fla., Marianna—Marianna Milling Co. to rebuild plant destroyed by fire with loss $20,000.

Ala., Mobile—A. D. Davis Packing Co. to rebuild packing plant destroyed by fire. About $60,000.

Ala., Prichard—H. Peter Davis Packing Co. Mobile, made plans 3-story, 72x167-ft. plant Henschien & McLaren, 37 West Van Buren St. Chicago, Arch.

Industrial Works (Continued)

La., Baldwin—Baldwin Lumber Co. to rebuild mill destroyed by fire with loss of $55,000.

La., Derry—Richards Lumber Co., organized with $200,000 capital stock, plans lumber mill in Natchitoches Parish. T. H. Watkins, Vice-Pres.

La., Monroe—Monroe Hardware Co. making plans 3-story, 100x300-ft. warehouse. About $50,000.

Tenn., Altonpark—Chattanooga Gas and Coal Products Co., Chattanooga, plans 25 byproduct coke ovens. About $500,000.

Tenn., Bristol—Reynolds Corp. plans to rebuild cleanser products plant destroyed by fire with loss of $150,000.

Ohio, Canal Dover—Penn Mold and Manufacturing Co., recently incorporated with $200,000 capital stock, plans foundry, West 3rd St.

Ohio, Cleveland—Cleveland Macaroni Co., 1898 East 89th St., making plans 3-story factory, $100,000. W. J. Watson, 1150 Leader News Bldg., Arch. Noted Nov. 30.

Ohio, Cleveland—Colburn Machine Tool Co., Franklin, Pa., receiving bids in January plant at Cleveland. G. S. Ridder Co., 812 Century Bldg., Arch. Noted Nov. 16.

Ohio, Cleveland—Domestic Wet Wash Laundry Co., 7189 Lorain Ave., plans 1-story, 70x135-ft. laundry, $15,000. W. H. Smith, Union Bldg., Arch.

Ohio, Cleveland—G. C. Kuhlman Car Co., Adams Ave., plans 1-story, 81x442-ft. addition, East 140th St. and New York Central R.R. About $100,000.

Ohio, Cleveland—National Woolen Co., 3131 West 33d St., plans factory on West 32d St.

Ohio, Cleveland—Telling Belle Vernon Co., 3821 Cedar Ave., plans 2-story plant. About $75,000. Christian, Schwartzenberg & Gaede, 1900 Euclid Bldg., Arch.

Ohio, Cleveland—Wolf Envelope Co., 1270 Ontario St. plans 2-story factory, $25,000. Christian, Schwartzenberg & Gaede, 1900 Euclid Bldg., Arch.

Ohio, Columbus—Cleveland, Cincinnati, Chicago & St. Louis Ry. purchased site near West Broad St. crossing, plans freight yard, repairs shops, roundhouses, etc. C. A. Paquette, Cincinnati, Ch. Engr.

Ohio, Mt. Gilead—Hydraulic Press Manufacturing Co. made plans improving and enlarging plant.

Ohio, Youngstown—Bessemer Gas Engine Co. plans additions. About $80,000.

Ind., Terre Haute—Standard Wheel Works, 1701 North 13th St., plans foundry and annealing ovens. D. B. Shourds, 511 Tribune Bldg., Arch.

Mich., Channing—Chicago, Milwaukee & St. Paul Ry. to enlarge yards and roundhouse. C. F. Loweth, Railway Exchange Bldg., Chicago, Ch. Engr.

Mich., Grand Rapids—Reed & Cheney Co. plans 4-story, 158x250-ft. plant on Market Ave.

Mich., Lansing—Novo Engine Co., plans 1-story foundry, $50,000. H. E. Smith, Capital National Bank Bldg., Arch.

Ill., Chicago—Sefton Manufacturing Co., 1301 West 35th St., plans warehouse. Postle & Fischer, 140 South Dearborn St., Arch.

Ill., Peoria—Grasselli Chemical Co., The Arcade, Cleveland, Ohio, plans plant on Canalport Ave., Peoria.

Wis., Beloit—J. Sairs plans 2-story 50x100-ft. factory and warehouse for manufacture automobile break linings.

Wis., Beloit—United States Linen Co. plans addition. A. K. Somers, Yates and Harvey St., Mgr.

Wis., Bloomer—C. E. Blodgett Co., Marshfield, making plans warehouse. About $200,000.

Wis., Milwaukee—Milwaukee Journal Co., 182 4th St., making plans 3-story, 50x120-ft. addition. Klug & Smith, Mack Blk., Engr. F. Howend, Arch. and Engr.

Ia., Council Bluffs—Interstate Flour and Feed Co., 16th Ave. and 4th St., plans 115x300-ft. plant. L. R. Butcher, Mgr.

Ia., Keokuk—Standard Four Tire Co. increased capital stock and will build addition. A. Kirsch, Bus. Mgr.

Ia., Sioux City—Sioux City Tire and Manufacturing Co. plans 2-story, brick and concrete factory on East 5th St. and Fowler Ave.

Iowa, Waterloo—W. Galloway Co. increased capital stock to $3,000,000, and plans factory.

Minn., Albert Lea—Strife Tractor Co. plans factory. J. H. Clapperton, 307 South 3d St., Minneapolis, Pres.

Minn., Hawley—Long Prairie Milling Co., Long Prairie, making plans flour mill. About $20,000.

Minn., Minneapolis—Flour City Fuel and Transfer Co., Lake St. and Blaisdell Ave., made plans warehouse. $150,000.

Minn., Minneapolis—B. J. Johnson Soap Co., 11 South 9th St., plans 6-story, 60x165-ft. warehouse. About $80,000. Tyrie & Chapman, Auditorium Bldg., Arch.

Kan., Fowler—Fowler Equity Exchange plans elevator. About $25,000. C. D. McCauley, Secy.

Neb., Lincoln—E. C. Strode, 510 Bankers' Life Bldg., making plans auto sales room. About $32,000. Fiske & Meginnis, 519 Bankers' Life Bldg., Arch.

Neb., Omaha—U. P. Steam Baking Co., 30th and Evans St., plans 2-story brick bakery. C. D. Cooley Co., Century Bldg., Pittsburgh, Arch. P. H. Anthony, 1109 Waldheim Bldg., Kansas City, Mo., Assoc. Arch.

Mont., Great Falls—Montana Candy Co. organized to build factory. About $30,000.

Mont., Libby—J. H. Ehlers, Spokane, Wash., to organize company to build pulp mill near Libby. About $10,000,000.

Mo., Moberly—Moberly Poultry and Creamery Co. making plans 60x90-ft. packing house. Ludwig Abt, Arch.

Mo., St. Louis—Modern Auto Repair Co., 4609-13 Olive St., granted permit 1-story plant. About $10,000.

Mo., St. Louis—Roxana Petroleum Co. plans refinery. About $1,000,000.

Ark., Pine Bluff—Fox Bros. Hardware Co. plans 4-story, 100x114-ft. warehouse. F. Fox, Pres.

Tex., El Paso—W. and C. C. Bush plan ice plant. About $50,000.

Tex., El Paso—Jolly & Morris plan warehouse. About $25,000.

Tex., Ft. Worth—J. M. Vincent to build 2- or 3-story, 95x100-ft. rein.-con. garage. About $50,000.

Tex., Post—Post City Brick and Tile Co. plans plant. V. A. Robinson, Engr.

Tex., San Antonio—Alamo Dressed Beef Co. to enlarge plant. About $11,000.

Tex., San Antonio—J. F. Watson to build 2-story building to be occupied by Firestone Tire and Rubber Co. About $30,000.

Okla., Clinton—Clinton & Oklahoma Western Ry. to rebuild shops destroyed by fire. W. S. Haid, Clinton, Gen. Mgr.

Okla., Oklahoma—Oklahoma City Mill and Elevator Co. plans warehouse. About $26,000.

Wash., Seattle—Ames Shipbuilding and Dry Dock Co., Hanford St., plans plant to include 54x160x440-ft. plate shed, 95x240-ft. machine shop, 75x400-ft. woodworking shop, 3 sheds, 50x120 ft., and power house and office building. Lee & Brinton, Colman Dock, Arch.

Calif., Fresno—Pacific Coast Grocery Co. making plans, 1-story, 150x275-ft. rein.-con. warehouse, Ventura Ave., P St. and Santa Fe Ave. Glass & Butner, Rowell Bldg., Arch. W. B. Wellman, Wellman, Peck & Co., San Francisco, Pres.

Ont., Port Arthur—J. Burnham & Co., New York, purchased plant Western Dry Dock and Shipbuilding Co. and will enlarge same.

Ont., Port Arthur—James Richardson Co. plans new elevator on waterfront.

Ont., Sarnia—Mueller Brass Co. plans additions. About $75,000.

Ont., Toronto—P. W. Ellis & Co., 21 Prescott Ave., granted permit 1-story addition. About $10,000.

B. C., Vancouver—S. Spratt, representing Amalgamated Dry Dock and Engineering Co., concern holding order in council authorizing issuance of bonds to extent of $5,500,000 for establishing plant at Vancouver, has been in Vancouver in connection with scheme.

Bids In and Contracts Awarded

Mass., Boston—H. M. Williams, 16 State St., let contract auto sales building to W. A. & H. A. ROOT, INC., 1 Beacon St.

Mass., Franklin—F. H. Appleton & Son, Fisher St., let contract addition to TORRINGTON BUILDING CO., Torrington, Ct. Noted July 13.

Mass., New Bedford—Holmes Mill let contract 1-story mill to Z. B. DAVIS CORP., 668 Acushnet Ave., $65,000.

Mass., Worcester—Norton Co. let contract 2 factory buildings to E. J. CROSS CO., 82 Foster St.

R. I., Central Falls—Standard Engineering Works, 190 Exchange St., let contract 2-story factory to B. F. SMITH CO., 22 Mason St., $15,000.

Ct., Hartford—D. F. Cotter, 40 Beach St., let contract 1-story garage to MALLEY & CROWLEY, 943 Main St., $20,000. Noted Nov. 2.

Ct., New Haven—Bronson & Townsend let contract 4-story warehouse to D. H. CLARK CO., 166 Brewery St. Noted Feb. 24.

Ct., Stratford—Bridgeport Safety Emery Wheel Co., 82 Knowlton St., Bridgeport, let contract factory to AUSTIN CO., Newfield Bldg., Bridgeport, $10,000.

Ct., Waterbury—American Fastener Co., North Elm St., let contract 3-story factory to J. F. BITTNER, 227 Willow St.

Ct., Waterbury—General Manufacturing Co., 66 North Elm St., let contract factory to J. F. BITTNER, 227 Willow St. Noted Nov. 9.

N. Y., Albany—Woodward Co., 388 Broadway, let contract 4-story warehouse to ALGO PANZIERI, 61 Grand St., $60,000. Noted Oct. 12.

N. Y., Buffalo—American Radiator Co., 1741 Elmwood Ave., let contract addition to J. W. COWPER CO., 721 Fidelity Bldg., $25,000.

N. Y., Buffalo—Buffalo Dry Dock Co., 191-301 Ganson St., let contract warehouse to WESTERN BUILDING CO., Iroquois Bldg., $15,000.

N. Y., Buffalo—General Carbonic Gas Co., 866 Seneca St., let contract addition to B. A. CROOKER, Builders' Exchange Bldg., $10,000. Noted Nov. 30.

N. Y., Buffalo—Schoelkopf Analine and Chemical Works, 324 Abbott Rd., let contract warehouse to J. W. COWPER CO., 721 Fidelity Bldg. Noted Sept. 21.

N. Y., New York—(Brooklyn)—J. C. Cavanaugh Corp., 151 Roebling St., let contract rebuilding factory to A. LINCK, 736 Bushwick Ave. About $10,000. Noted Oct. 19.

N. Y., New York—(Brooklyn)—M. G. Malaxas, 536 44th St., let contract 3-story, factory to H. BESKIN, 100 Graham Ave., $18,000.

N. Y., New York—(Manhattan)—Thonet Bros., 14 East 32nd St., let contract 1-story factory at 542-46 West 36th St., to GRANT CONSTRUCTION CO., 5 East 42nd St.

N. J., Harrison—New Jersey Tube Co., Kingsland Ave., let contract 1-story mill to W. L. BLANCHARD, 160 Sherman Ave., Newark.

N. J., Jersey City—E. Schauble, 62 Van Winkle Ave., let contract dyehouse, McPherson and Elliott Pl., to F. CRAHAY, 3572 Boulevard. About $12,000.

N. J., Jersey City—Wilson & Co., Union Stock Yards, Chicago, Ill., let contract 3-story addition M. T. CONNOLLY CO., 238 17th St., $50,000. Noted Aug. 24.

N. J., Newark—Hagerstrom & Chapman Co., 85 Columbia St., let contract factory 9 Orchard St. to ZACHER & KURRLE, 460 South 21st St., Irvington. About $11,500. Noted Dec. 14.

N. J., Newark—A. Hollender & Sons, 143 East Kinney St., let contract factory 123-29 East Kinney St., to E. M. WALDRON, INC., 207 Market St. About $50,000.

N. J., Union Hill—(Weehawken post office)—Hudson-Dispatch News, 509 Lewis St., let contract printing and office building, Lewis St. and New York Ave., to G. De KIMPE, 68 Hudson St., Hoboken. About $100,000. Noted Oct. 5.

Penn., Bradford—Krajenski Pesant Corp. let contract 1-story machine shop to HAMILTON & CHAMBERS CO., 29 Broadway, New York, N. Y., $50,000.

Penn., McKeesport—Peters Packing Co., 922 Rose St., let contract fertilizer plant to G. BLAIR, 215 6th St., $30,000.

Penn., Philadelphia—S. Greene, 16th and Arch St., let contract 7-story addition to F. G. STEWART, 1619 Sansom St. Noted Nov. 30.

Penn., Philadelphia—Morris-Wheeler Realty Co. let contract plant, 30th and Locust St., for Morris, Wheeler & Co., 16th and Market St., to W. STEELE & SONS CO., Kingsley and Cresson St. Noted Nov. 16.

Penn., Philadelphia—Penn Flexible Tubing Co., Abbott Bldg., let contract 1-story shop to E. J. KREITZBURG, 1345 Arch St., $12,000.

Penn., Pittsburgh—Baltimore & Ohio Railroad Co. let contract warehouse to H. SHENK CO., Century Bldg., $200,000.

Penn., Pittsburgh—Consolidated Ice Co., 13th and Pike St., let contract ice-storage house to HODDER CONSTRUCTION CO., Braddock, $15,000. Noted Oct. 26.

Penn., Pittsburgh—Jackson Motor Supply Co., 5902 Penn Ave., let contract 3-story salesroom and garage to G. BALDENSPERGER, 401 Highland Bldg., $40,000. Noted Dec. 14.

Penn., Pittsburgh—Kaufman Bros., 24 West Grant Ave., let contract warehouse to STONE & WEBSTER CO., 38 South Dearborn St., Chicago, $500,000. Noted Oct. 26.

Penn., Williamsport—Chessman & Elliott, 100 William St., New York, let contract factory and storage building on East St. to S. LARRIVEE, Williamsport. Noted Dec. 14.

Pa., York—Crescent Ice and Coal Co., 52nd St., Phila., let contract plant to H. VOIGHT, 1251 North 28th St. $30,000.

Md., Baltimore—American Ice Co., 309 Calvert Bldg., let contract ice plant to H. S. RIPPLE, 7 Clay St., $10,000.

Md., Baltimore—Shawingan Electro Products Co., U. S. Fidelity & Guarantee Bldg., let contract addition to GUARANTEE CONSTRUCTION CO., 140 Cedar Ave., $10,000.

Md., Cumberland—Kelly-Springfield Tire Co., Springfield, Ohio, let contract plant to S. DIESCHER & SONS, Farmers Bank Bldg., Pittsburgh. About $2,500,000. Noted Oct. 5.

Va., Lynchburg—Norfolk & Western Ry. let contract 2-story addition to freight warehouse to J. P. PETTYJOHN & CO., Lynchburg.

Va., Norfolk—W. P. Cake let contract lumber mill and sheds to R. H. GREGORY, Ocean View, $20,000. Noted Dec. 7.

Va., Richmond—W. H. Harris Grocery Co. let contract warehouse to TRAVERS-WOOD CO., Richmond. About $70,000.

W. Va., St. Albans—Roessler & Hasslacher Chemical Co., Perth Amboy, let contract plant to C. W. McNULTY, 814½ Quarrier St., Charleston. Noted Oct. 12.

Fla., Dade City—E. M. Scoville let contract plant to manufacture valves to MUTUAL CONSTRUCTION CO.

Industrial Works (Continued)

Ala., Montgomery—Cramton Lumber Co. plans to build planing mill by company forces. About $15,000. T. L. Bear, Mgr.

Ohio, Alliance—L. Hoppes, 2335 South Union Ave., let contract plant to J. WILSON, 62 East Summit St., $15,000.

Ohio, Cleveland—I. Leisy Brewing Co., 3320 Vega Ave., let contract refrigerating building to WALTHER ENGINEERING CO., 1903 East 19th St., $85,000. Noted Nov. 30.

Ohio, Columbus—A. J. Pembroke, 717 Columbus Savings and Trust Bldg., let contract 2-story sales garage to D. D. LIVINGSTON, 926 Studer Ave., $20,000.

Ohio, Dayton—Dicks, Pontius Co., 28 North Canal St., let contract 2-story addition to DANIS, HUNT CO., First and Webb St., $25,000.

Ohio, Lorain—Lorain Crystal Ice Co. let contract plant and tank house to TOWNER & COOK, $16,000. Noted Dec. 7.

Ohio, Marietta—C. W. Schramm & Co., 132 Putnam St., let contract bakery to F. BECKER, 616 5th Ave., $35,000. Noted Sept. 21.

Ohio, Sidney—Sidney Manufacturing Co. let contract 1-story factory to MIAMI CONSTRUCTION CO., 30 Hess St., Dayton, $10,000.

Ind., Frankfort—Frankfort Auto Co. let contract 1-story factory to J. PADEN.

Mich., Battle Creek—Standard Oil Co., 1260 Butterworth St., let contract 2-story warehouse to C. HOERTZ & SON, 659 West Bridge St., Grand Rapids.

Mich., Benton Harbor—Baker-Lawter Co., let contract 2 factories to M. STOCK, St. Joseph, $46,000. Noted Sept. 14.

Mich., Detroit—American Radiator Co., Chome St., let contract 2-story cupola to H. G. CHRISMAN CO., 315 Stevens Bldg., $15,000. Noted Sept. 14.

Mich., Detroit—Chalmers Motor Car Co., Jefferson Ave. and Belt Line, let contract press shop to H. G. CHRISMAN CO., 315 Stevens Bldg., $12,000.

Mich., Hamtramck—Michigan Steel Tube Co., 140 West Boston Blvd., Detroit, let contract 1-story factory to AUSTIN CO., 1954 Penobscot Bldg., Detroit, $40,000.

Mich., River Rouge—Ford Automobile Co., Detroit, let contract blast furnace to STEEL AMERICAN BRIDGE CO., Beecher St., Detroit, $5,000,000. Noted Dec. 7.

Mich., St. Joseph—Williams Bros., let contract 2-story warehouse to M. STOCK.

Mich., Wheeler—Detroit Creamery Co., Grand River and Cass Ave., Detroit, will build by day labor 1-story receiving station.

Ill., Aurora—D. R. Sperry & Co., 188 Main St., let contract 1-story addition to W. H. GRAHAM, 555 Downer Pl., $10,000.

Ill., Chicago—H. C. Evans Co., 75 West Van Buren St., let contract 2-story factory to E. CLAYSON, 1307 North Harding Ave.

Ill., Chicago—Excelsior Steel Furnace Co., 517 West Monroe St., let contract 4-story factory to GERHARD F. MEYNE, 127 North Dearborn St., $100,000. Noted July 13.

Ill., Chicago—E. R. Klemm, 1453 Austin Ave., let contract 2-story machine shop to A. T. KRAMER & CO., 230 South La Salle St., $15,000.

Ill., Cicero—Successful Merchant, Inc., 541 West Washington St., let contract 1-story factory to J. A. THOMAS, 840 Cass St., Chicago.

Ill., Kankakee—Langan Paint Co. to build 2-story factory and store by day labor, $18,000.

Ill., Kankakee—Sears, Roebuck & Co., St. Louis Ave., and Arthington St., let contract 2-story factory to SUMNER-SOLLITT CO., 79 East Adams St., Chicago.

Wis., Beloit—Beloit Iron Works, c/o N. Ross, Beloit, let contract pattern storage building to CUNNINGHAM BROS. About $15,000.

Wis., Milwaukee—Van Dyke Knitting Co., 890 South Pierce St., let contract 2-story storehouse to C. A. KIEPPE, 1026 1st St., $10,000.

Wis., Otjen—United States Glue Co., let contract refrigerating plant to PAUL RIESENS SONS, Humboldt Ave., Milwaukee, $15,000.

Wis., Rockfield—Rockfield Canning Co. let contract. 2-story warehouse to A. BERRIES, West Bend.

Ia., Des Moines—Consumers' Ice Co., New York Ave., let contract 1-story cold storage building to BENSON & MARXER, 515 Third St., $10,000.

Ia., Marshalltown—Lennox Furnace Co., 119 East Main St., let contract factory to W. LANGER, East Main St., about $15,000.

Ia., Ottumwa—Webb Phillips, East Maple St., let contract 4-story warehouse to OTTUMWA MILLWORK CONSTRUCTION CO., 308 West Main St.

Ia., Waterloo—Rath Packing Co. let contract cold-storage plant to Black HAWK CONSTRUCTION CO., about $56,000. Noted Nov. 23.

Minn., Minneapolis—S. T. McKnight Co., McKnight Bldg., let contract 10-story warehouse to J. LECK & CO., 123 South Seventh St., $100,000.

Minn., Minneapolis—B. E. Stimson, 111 South 10th St., let contract service station, 9 East 16th St., to J. L. ROBINSON CONSTRUCTION CO., 511 South 7th St. About $20,000.

Minn., Minneapolis—Twin City Trading Co., 24th and Southeast Elm St., let contract storage and transfer house, also train sheds to BARNETT & RECORD CO., 700 Flour Exchange Bldg. About $140,000. Noted May 11.

Kan., Atchison—Seaton Foundry Co. let contract 1-story, 100x275-ft. foundry to MISSOURI VALLEY BRIDGE AND IRON CO., Leavenworth. Noted Nov. 16.

Neb., Norfolk—Albough-Dover Co. let contract factory to EBERHARDT CONSTRUCTION CO., Salina, Kan., about $30,000. Noted Nov. 23.

Mo., Kansas City—Aines Farm Dairy Co., 39th and Main St., let contract 3-story plant to MOSBY & GOODRICH, 904 New York Life Bldg., $75,000. Noted Nov. 30.

Mo., Kansas City—E. C. Marqua, 1109 Waldheim Bldg., let contract warehouse, 33d St. and Roanoke Rd., to SWENSON CONSTRUCTION CO. Noted Mar. 2.

Mo., St. Louis—Griesidiek Bros. Brewery Co., 19th and Shenandoeh Ave., let contract 4-story stock house to KELLERMAN CONSTRUCTION CO., Roe Bldg., $50,000.

Tex., El Paso—Worsham, Palm & Singleton let contract warehouse to H. T. PONSFORD, El Paso. About $40,000 or $50,000.

Ariz., Winslow—Atchison, Topeka & Santa Fe Ry. let contract ice-storage building to F. O. ENGSTRUM CO., 5th and Seaton St., Los Angeles. About $50,000.

Calif., Manteca—Spreckel's Sugar Co. let contract refinery to DYERS CONSTRUCTION CO., Tracy, about $2,000,000.

Que., Montreal—International Manufacturing Co. let contract factory to ANGLINS, LTD., 65 Victoria St., about $1,000,000.

Ont., Acton—Reliance Shoe Co., 350 Sorauren Ave., Toronto, let contract factory to J. B. McKENZIE Georgetown, about $13,000. Noted Oct. 19.

Ont., Cornwall—Canadian Cotton Co., Montreal, let contract addition to ANGLINS, LTD., 65 Victoria St., Montreal. About $50,000.

Ont., Galt—Sheldon Co., Ltd., let contract addition to P. H. SECORD & SON, Brantford, about $18,000.

Ont., Hamilton—Cummer-Dowswell Co., Elgin St., let contract addition to MITCHELL & RIDDELL. About $16,000.

Ont., New Toronto—Dominion Abrasive Wheel Co., Ltd., let contract factory to TOMS CONTRACTING CO., Toronto, about $65,000.

Ont., Trenton—British Chemical Co. let contract plant to consist of 40 buildings to GAYLORD ENGINEERING CO., about $500,000.

FEDERAL GOVERNMENT WORK

Proposed Work

N. Y., New York—Groins, Etc.—U. S. Engr. Office, Room 802, 30 Whitehall St., receiving bids Dec. 28 for timber groins and repair of seawall near southern boundary of Sandy Hook Reservation, N. J. Noted Nov. 23. (See adv.)

Penn., Philadelphia—Dredging—U. S. Engr. Office, Philadelphia, receiving bids Jan. 15, on Tinicum, Chestnut and Marcus Hook Ranges, Delaware River.

Penn., Philadelphia—Dry Dock—Bureau of Yards and Docks, Navy Dept., Washington, D. C., receiving bids Jan. 29, No. 3, Philadelphia Navy Yard.

Ga., Augusta—Refrigerating Machine—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Jan. 11, in post office and courthouse.

Mich., Charlotte—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Jan. 19. Noted July 6.

Neb., Chadron—Post Office and Courthouse—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., rejected bids. New bids. Noted Dec. 14.

Idaho, Twin Falls—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., rejected bids. New bids. Noted Dec. 14.

Utah, Richfield—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Jan. 22.

Alaska, Seward—Railway—Alaskan Engineering Commission plans 240 mi., $10,590,672 next year.

Panama—Miscellaneous Supplies—E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, receiving bids Jan. 2, Circular No. 1107.

T. H., Honolulu—Bd. Supervs. to issue $480,000 bonds to improve water-works and sewer systems.

Bids In and Contracts Awarded

R. I., Newport—Sea Wall—Bureau Yards and Docks, Navy Dept., Washington, D. C., let contract, at Naval Torpedo Station, to R. H. BEATTY, Fall River, Mass., $26,571. Noted Nov. 16.

Md., Annapolis—Sea Wall—Bureau of Yards and Docks, Navy Dept., Washington, D. C., let contract rein.-con., at U. S. Naval Academy, Annapolis, to DORSEY & MILLER CO., Corcoran Bldg., Washington, D. C., $68,218. Noted Dec. 7.

Wash., D. C.—Building—Dist. Comrs. rejected bids, public convenience station at 15th St. and Maryland Ave., N. E. Work to be done by District Government.

Wash., D. C.—Pig Lead—Dist. Comrs. let contract 100,000 lb. for Water Dept. to NASSAU SMELTING AND REFINING CO., 603 West 29th St., New York, 7.12c. per lb.

Wash., D. C.—Railway Tracks—Dist. Comrs., Room 509, Dist. Bldg., let contract restoring street railway tracks to grade on 1st St. east from B St., South to B St., north to CRANFORD PAVING CO., 2620 East N. W., Washington. Noted Nov. 23.

Wash., D. C.—Sewers—Dist. Comrs. let contracts 14th St. and Mt. Pleasant trunk sewers to L. M. JOHNSON, Arlington, Va., Old Tiber, Good Hope Run and Pennsylvania Ave. relief sewers to W. F. BRENIZER CO., Washington. Noted Nov. 30.

Va., Franklin—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., let contract to R. V. RICHARDSON, Hampton, $37,740. Noted Nov. 30.

Ala., Ft. Morgan—Wharf—Quartermaster let contract, timber, at Ft. Morgan, to G. M. GADSDEN, Savannah, Ga., $14,847. Noted Nov. 30.

La., New Orleans—Custom House—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., received low bids Nov. 17 remodeling from Hanna & Mitchell, New Orleans, $284,402; J. G. Unkefer & Co., Minerva, Ohio, $289,700; W. H. Maxwell, Lakeside, Wash., $309,000. Noted Nov. 2.

Wis., Antigo—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., let contract to W. D. LOVELL, 1415 Southeast 8th St., Minneapolis, Minn. About $70,000.

Mo., St. Louis—Levee Work—Secy. Mississippi River Comn., 1311 International Life Bldg., St. Louis, let contract 100,000 cu.yd. in East Cape Girardeau and Clear Creek Drainage Dist., Ill., to ROACH & STANSELL, North Memphis Savings Bank Bldg., Memphis, Tenn., $15,380. Noted Nov. 9.

Ark., Eureka Springs—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., received low bids Dec. 11 (a) limestone, (b) sandstone from R. S. Moore, 4th and Columbia St., Lafayette, Ind., (a) $37,470, (b) $37,900; Latimer & Banning, Kansas City, Mo., (a) $37,740, W. D. Lovell, 1415 South East 8th St., Minneapolis, Minn., (a) $38,540. Noted Nov. 9.

Ore., Portland—Coast Guard Station—Treasury Dept., U. S. Coast Guard Station, Washington, let contract, Siuslaw River, Ore., to H. R. KIBLER, Portland, $8,389.

Calif., Vallejo—Crane—Bureau Yards and Docks, Navy Dept., Washington, received low bids 250-ton floating revolving crane for Mare Island Navy Yard from McMyler-Interstate Co., Bedford, Ohio, $837,000; Wellman-Seaver-Morgan Co., 7000 Central Ave., S. E., Cleveland, $555,000. Noted Sept. 28.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., Albany—(Official)—W. W. Wotherspoon, State Supt. Pub. Wks., Capitol, receiving bids Dec. 27, Terminal Contract No. 201, warehouses at Albany and Whitehall. Noted Oct. 19.

N. Y., Albany—(Official)—W. W. Wotherspoon, State Supt. Pub. Wks., Capitol, receiving bids Dec. 27, Terminal Contract No. 202, warehouses at North Tonawanda and Lockport; Terminal Contract No. 203, temporary warehouses at Troy, Mechanicville, Ft. Edward and Port Henry.

N. Y., New York—(Brooklyn and Queens)—Drainage—Bd. of Health of Dept. of Health, Centre and Walker St., receiving bids Dec. 28 improving certain areas in salt marshlands and meadows located within boroughs of Brooklyn and Queens, including islands in Jamaica Bay, in city of New York.

N. Y., New York—(Queens)—Drainage—Bd. of Health of Dept. of Health, Centre and Walker St., Manhattan, receiving bids Dec. 28 improving certain areas in salt marshlands and meadows in College Point Sect.

Ga., Lawrenceville — Drainage — Sweetwater Drainage Dist. being organized to drain land in Gwinnett County. I. L. Oakes, Lawrenceville, Atty.

Fla., Arcadia—Drainage—Limestone Irrigation Dist., De Sota County, soon lets contract main and lateral canals draining 15,600 acres of land. Graven & Kimmel, Arcadia, Engr.

Ala., Bessemer—Canal—City plans canal from Warrior River to Bessemer, Birmingham Real Estate Exchange, G. W. Yerkes, Chn., Birmingham, interested.

Ala., Birmingham—Canal—Surveys being made by F. K. Davis and A. Cobb, Engrs., Tuscaloosa, Valley Creek Canal.

Miss., Effie—(Tandy post office)—Morgan Engineering Co., Memphis, making plans complete tile drainage of 1,000-acre plantation. Company would like to get in touch with contractors of drainage machinery for work and quotations on tile from manufacturers.

La., Crowley—Drainage—Acadia Parish, 1st Ward Drainage Dist., election Dec. 30 to vote on $100,000 bonds to build drainage system. W. Dupont, Crowley, Pres. Drainage Com.

Ohio, Cleveland—(Official)—Ditch — Cuyahoga County receiving bids Jan. 6, Solon Township. W. A. Stinchcomb, Cleveland, County Surv.

Ohio, Wapakoneta—Dredging—Auglaize County plans to dredge Ft. Laramie Creek, about 12 mi., $27,000. Address County Clk., Wapakoneta.

Canals, Ditches and Irrigation (Continued)

Ind., Alexandria—Dredging—Madison County plans to dredge Pipe Creek, about 3 mi. southwest Alexandria. Address County Clk., Anderson.

Ind., Rensselaer—Ditch—Comrs. Jasper County, Court House, receiving bids Dec. 27, Zimmer Ditch. E. D. Nesbitt, Rensselaer, Comr. in charge constr.

Ill., Carlinville—(Official)—Drainage—Drainage Comrs. Dist. No. 1, South Otter Township, Macoupin County, receiving bids Dec. 27. S. T. Morse, Carlinville, Engr.

Ill., Belvidere—Drainage—Coon Creek Drainage Dist., Boone County, soon lets contract drainage near Belvidere and Marengo, 22 mi. ditches, about $82,000. A. L. Webster, Harvard, Engr.

Ill., Quincy—(Official)—Drainage—Indian Grave Drainage Dist., 615 Hampshire St., receiving bids Dec. 23, rein.-con. sluice on pile foundation, about 360-ft. long. Noted Sept. 7.

Ill., Sycamore—Drainage—DeKalb County receiving bids Dec. 28 work in Union Drainage Dist. No. 1; 115,040 cu.yd. earth excavation from main channel, 21,533 cu.yd. earth excavation from Afton lateral and 4,510 cu.yd. earth excavation from Afton sub-lateral; also 55,000 cu.yd. earth excavation on Milan lateral (new work). G. Mosher, Sycamore, County Clk.

Ill., Urbana—(Official)—Drainage—Pesotum Slough Special Drainage Dist., Court House, receiving bids Dec. 28 system of tile drainage, Sub-district No. 5. E. V. Burton, Pesotum, Engr.-in-charge.

Wis., Elkhorn—Drainage—Troy Drainage Comn., Walworth County, to let contract system about Jan. 4. G. B. Cain, Member.

Iowa, Hampton—Ditches—Franklin County rejected bids in Dists. Nos. 45 and 47. New bids. F. McSpaden, Hampton, Audr.

Ia., Rockwell City—Drainage—Calhoun County receiving bids Jan. 23 improvements in Dist. No. 218, Union Township. Address County Audr., Rockwell City.

Minn., Crookston—Ditch—Polk County receiving bids Jan. 25, Ditch No. 106, 37,349 cu.yd. excavation, about $4,668. H. J. Welte, Crookston, Audr.

Minn., Marshall—Ditches—Lyon County plans following ditches in spring: Ditch No. 26, about $20,000; No. 28, $22,000; No. 29, $5,000; No. 30, $25,000; No. 32, $11,000; No. 33, $4,000; No. 34, $4,000; No. 35, $35,000; No. 36, $4,000; No. 38, $10,000; Judicial Ditch No. 16, $150,000; 2 new ditches about $50,000 each. O. H. Sterk, Marshall, Drainage Engr.

Minn., Olivia—Drainage—T. S. Hewerdine, Engr., Olivia, making plans, about 250 mi. dredging, Renville County.

Minn., Owatonna—Ditch—Steele County plans Ditch No. 3, about $80,000. Address County Clk., Owatonna.

Minn., Park Rapids—Ditch—Hubbard County plans to build Ditch No. 7. F. Heisel, Park Rapids, Audr.

Minn., Walker—Ditches—Cass County soon lets contract Ditches Nos. 8 and 10. C. D. Baian, Walker, County Audr.

N. D., Forman—Drainage—Sargent County Drainage Bd. plans ditch to drain county around Minot to Wild Race River. About $37,000. D. E. McPherson, Forman, Audr.

Mont., Hardin—Irrigation—Surveys being made immense irrigation project in connection Big Horn Canyon Irrigation and Power Co. J. J. Harris, Pres.

Okla., Atoka—Drainage—Atoka Drainage Dist. No. 1, recently organized, plans to drain about 200,000 acres. Address A. E. Newman, Atoka, Secy.

Okla., Oklahoma—Drainage—Oklahoma County plans immense drainage district to embrace parts 13 counties to be formed in order that cut-off canal may be built connecting North Canadian River with South Canadian River. Address County Clk., Oklahoma.

Wash., Seattle—Drainage—Comrs. King and Snohomish Counties to form drainage district, 2,500 acres in Snoqualmie Valley, about $37,000. P. Niles, Seattle, Drainage Engr.

Ore., Drewsy—Irrigation—J. H. Lewis, State Engr., Salt Lake City, approved application A. S. Beede & Sons, Drewsy, to build reservoir to store 3,800 acre-ft. water to irrigate 1,596 acres land. Plans include canal 6 mi. long and dam 3 ft. high. About $20,000.

Ore., Jacksonville—Irrigation—F. L. Tou Velle, Judge Jackson County, ordered election Dec. 27 to vote on formation irrigation district, about 25 acres between Jacksonville, Medford and Phoenix.

Ore., Klamath Falls—Irrigation—Klamath County plans to irrigate 430 acres west of old Van Brimmer Ditch and north Whitelake. Address County Clk., Klamath Falls.

Ore., Riddle—Irrigation—A. D. Helms interested in irrigation project to water about 500 acres of land.

Calif., Hammond—Drainage—Police Jury Tangipahoa Parish petitioned to call election to vote on $200,000 bonds to drain lands in parish. Address Pres. Jury, Hammond.

Calif., San Francisco—Irrigation—Pacific Gas and Electric Co., 445 Sutter St., San Francisco, plans to enlarge corporations' system. About $225,000.

Calif., Stockton—Irrigation—West Side Irrigation Dist. voted $295,000 bonds for work. Contract soon to be let. W. G. Hunter, Stockton, Engr. Noted Jan. 27.

Calif., Woodland—Drainage—B. F. Conway, Colonial Trust Bldg., Los Angeles, and associates purchased about 14,000 acres to build drainage and irrigation system.

Bids In and Contracts Awarded

N. Y., New York—(Brooklyn)—(Official)—Dredging—R. G. Packard Co., 133 Greenwich St., Manhattan, at 75c. per cu.yd., only bidder dredging Wallabout Canal. Noted Nov. 30.

N. Y., New York—(Brooklyn)—Dredging—R. A. C. Smith, Comr. Docks, Pier "A," Battery Pl., North River, Manhattan, let contract dredging foot 29th, 30th and 35th St., South Brooklyn, to COASTWISE DREDGING CO., 17 Battery Pl., Manhattan, 24c. per cu.yd. Noted Dec 7.

Tenn., Dyersburg—Drainage—Bogota Drainage Dist., of Dyer and Obion Counties, received bids 8 mi. ditch, (a) removal of 405,000 cu.yd. material, (b) cleaning 96 acres right-of-way at Dyersburg, from: J. P. Carr, Ft. Wayne, Ind., (a) 6c., (b) $12; Goodrich & Gray, Royal Center, Ind., (a) 6.4c., (b) $10; McGuire Bros. & Caldwell, Trimble, (a) 6.7c., (b) $10.40. Noted Nov. 2.

Ia., Council Bluffs—(Official)—Drainage—Mosquito Creek Drainage Dist., Pottawatomie County, let contract to STERNBERG BROS., St. Louis, Mo., 0.069c. per cu.yd.

Ia., Storm Lake—Ditch—Bd. Supervs. Buena Vista County let contract Ditch No. 102 to ANDERSON & PETERSON, Vincent, Ditch No. 100, to J. FLEITER, Whittemore.

Ia., Webster City—Drain—Hamilton County let contract Sect. No. 1, Castner, Williams and Askland Drain, to R. L. COX, Webster City, about $12,800.

Minn., Breckenridge—Ditch—Wilkin County let contract Ditch No. 28 to BROWN & HARBINSON, Litchfield, 14.60c. per cu.yd. Noted Dec. 7.

Minn., Chaska—Ditch—Carver and McLeod Counties let contract Ditch No. 5 to GLENCOE DRAIN TILE CO., Glencoe, about $17,000. Noted Nov. 9.

Minn., Fairmont—Ditch—Martin County let contract Ditch No. 9 to CEYLON CEMENT TILE CO., Ceylon, about $5,600.

Minn., Glencoe—Ditch—McLeod County let contract Ditch No. 28 to G. McALLISTER, Glencoe, about $19,000. Noted Aug. 3.

Minn., Ortonville—Ditch—Bigstone County let contract Ditch No. 13 to SCHOLBERG & JAMES, Marion, S. D.; Ditch No. 11, BEMIDJI DREDGE CO., Bemidji. About $24,000.

Tex., Columbus—Drainage—Drainage Dist. No. 22, Colorado County, let contract 75,000 cu.yd. ditch excavation to H. KENYON, Houston, 12½c. cu.yd.

Calif., San Jose—Ditch—City let contract Foxworthy Drainage Ditch and concrete culvert on Plummer Ave. to RAISCH IMPROVEMENT CO., Crocker Bldg., San Francisco, about $11,790.

MISCELLANEOUS

Proposed Work

Mass., Beverly Cove—(Beverly post office)—Swimming Pool—W. H. Brown plans, Brown Estate, Prince St. About $60,000.

N. Y., New York—(Bronx)—Playground—Bd. Estimate granted. T. W. Whittle, Bronx Park Comr., appropriation to convert 24 acres in southwest corner Van Cortlandt Park into playground, athletic field, tennis court, etc.

N. Y., New York—(Brooklyn)—Market House—M. Wilinsky & Co., 1681 President St., plans 1-story, 45x100. About $12,000. M. Whinston, 459 Stone Ave., Arch.

N. Y., New York—(Brooklyn)—Retaining Wall—Frank Richards, 148 Sunnyside Ave., made plans, at Hendrix St. and Highland Blvd.

N. Y., New York—(Manhattan)—Station Finish—Pub. Ser. Comn. for First Dist., 120 Broadway, receiving bids Dec. 28 station finish 9 stations on Seventh Ave.-Lexington Ave. Rapid Transit R.R. Noted Dec. 7.

N. Y., New York—(Queens)—Elimination Grade Crossings—Long Island Railroad Co. receiving bids about Feb. 1, at Center Moriches. J. R. Savage, Jamaica, Ch. Engr.

N. Y., Syracuse—Elimination Grade Crossings—H. A. Allen, City Engr., made plans eliminating all crossings in city. Contracts to be let jointly by city and New York Central R.R. G. W. Kittredge, Grand Central Terminal, New York, Ch. Engr. Lines East Buffalo. Noted Dec. 30.

N. J., Mt. Holly—(Official)—Road Oil—Bd. Chosen Freeholders Burlington County, Court House, receiving bids Jan. 1 heavy road oil to be used on county's improved roads for year 1917. J. Logan, Mt. Holly, County Engr.

N. J., Mt. Holly—(Official)—Road Oil—Bd. Chosen Freeholders Burlington County, Court House, receiving bids Jan. 1 road oil to be used on county's improved roads for year 1917. J. Logan, Mt. Holly, County Engr.

N. J., Mt. Holly—(Official)—Stone—Bd. Freeholders Burlington County, Court House, receiving bids Jan. 1, broken stone. J. Logan, Mt. Holly, County Engr.

N. J., Rutherford—Elimination Grade Crossing—Erie R.R. soon receives bids. R. S. Parsons, 50 Church St., New York, N. Y., Ch. Engr.

Ga., Savannah—Wharf—Com. on Harbor and Wharves authorized chief engineer to make plans. E. R. Conant, City Engr.

Fla., Miami—Swimming Pool, Etc.—C. G. Fisher, Miami, plans swimming pool and dutch windmill, Miami Beach Casino Grounds. About $15,000.

Ohio, Ashtabula—Subway—City, New York Central R.R., Lines West of Buffalo, and Pennsylvania Lines West Pittsburgh plan, Center St. Bond election may be held. About $341,000, 65% to be borne by railroads. L. A. Amsden, City Engr., G. C. Cleveland, St. Clair Ave., and West 3rd St., Cleveland, Ch. Engr., former railroad and T. Rodd, Pittsburgh Station, Pittsburgh, Ch. Engr., latter.

Ohio, Cincinnati—Playground—City plans, Hamilton Ave. and Cincinnati, Hamilton & Dayton R.R. Plans include clubhouse with 2 wings. About $20,000. Garber & Woodward, 2803 Union Central Bldg., Arch.

Ohio, Cincinnati—Track Elevation—Pennsylvania Lines West Pittsburgh plans to isue $36,000 bonds to elevate tracks. T. Rodd, Pennsylvania Station, Pittsburgh, Ch. Engr.

Ohio, Columbus—Stadium—Ohio State University plans. W. O. Thomson, Pres.

Ohio, Dayton—Comfort Station—City plans Main St. Market House. Bids to be received by Dexter & McClure, Arch. F. O. Eichelberger, City Engr.

Ohio, Dayton—Flood Protection—Conservacy Court approved plans of Miami Conservacy of Dayton protecting Miami Valley from floods. About $23,500,000. Noted Mar. 23.

Ohio, Lancaster—Swimming Pool—City plans, Rising Park. Bruce M. Walker, Local Agt. Pennsylvania R.R. Chn. Com. J. Griggs, City Engr.

Ind., Ft. Wayne—(Official)—Pipe—Bd. Pub. Wks. receiving bids Dec. 26, 300 tons 6- to 12-in. c.-i. water pipe, 100 lb. working pressure. C. A. Beuret, Secy.

Mich., Grand Rapids—Track Elevation—A. Cutcheon, Gen. Mgr. Bd. Pub. Wks., to prepare estimate of cost of elevating all tracks from Union Depot to city limits and Franklin St. with view to making grade separation at Wealthy St. and Grandville Ave. W. S. Moore, City Engr.

Ill., Chicago—Subway—City plans to build subway system and to be sole owner of same. First 7 mi. of system to be started at once through downtown district. Chicago Traction and Subway Comn recommended that $18,000,000 traction fund be used for series subways in loop. Entire cost project about $65,000,000. W. P. Parsons and R. Ridgway, Members Comn. J. Ericson, City Engr.

Ill., Waukegan—Track Elevation—Chicago & Northwestern Ry. plans through Waukegan. W. H. Finley, Jackson Blvd. and Franklin St., Chicago, Ch. Engr.

Ia., Council Bluffs—Flood Prevention—E. E. Spetman, City Engr., estimates cost of cleaning Indian Creek for flood prevention at $19,741. Noted Nov. 2.

Minn., St. Paul—Dock—City plans at harbor on Sibley St. next year. About $25,000. O. Claussen, City Engr.

Neb., Omaha—Comfort Station—City Planning Bd. plans, 17th St. and Capitol Ave. J. A. Bruce, City Engr.

Mont., Lewiston—Park Improvements—Council plans to spend $12,000.

Tex., Anahuac—Bulkhead—Anahuac Texas Impvt. Dist. sold $40,000 bonds to build bulkhead across Martins Bay.

Tex., Brownwood—Fire Station—City soon votes on $30,000 bonds to build fire station. W. A. Storey, City Clk. Noted Dec. 7.

Okla., Tulsa—Fire Station—City soon receives bids, 18th St. and Boston Ave. About $5,000. Rush, Endicott & Rush, Tulsa, Arch. E. C. Hughes, City Engr.

Colo., Denver—Fountain—J. A. Thatcher retained L. Taft, Sculptor, Chicago, to design statue fountain as gift to city. About $100,000.

Colo., Denver—Gateway—City received gift of $20,000 ornamental gateway at esplanade entrance City Park in memory of Dennis Sullivan. H. F. Meryweather, City Engr.

Wash., Bellingham—Dock—City election soon to vote on $35,000 bonds to build dock on Pine St. W. H. North, City Engr. Noted Mar. 9.

Ore., Portland—Playgrounds—City plans election in June to vote on $10,000 bonds to build playgrounds. P. H. Dater, City Engr.

Calif., Long Beach—Pier—City plans election to vote on $900,000 bonds to build 1,800-ft. pier and auditorium. A. deRing, City Engr.

Calif., Oakland—Bulkhead, Etc.—Southern Pacific Co. plans bulkhead and retaining walls at Oakland Harbor. About $250,000. W. Hood, Flood Bldg., San Francisco, Ch. Engr.

Calif., San Diego—Dam—Citizens defeated $682,210 bonds to build dam at Lower Otay. New election soon. G. Cromwell, City Engr.

Ont., Ottawa—Swimming Pools—City to submit $75,000 by-law at January election.

Ont., Sarnia—Fire Alarm System, Etc.—N. R. Wilson, Engr., will recommend that Council install new fire-alarm system all over city and build new station in south ward.

Miscellaneous (Continued)

Bids in and Contracts Awarded

Mass., Boston—Park Improvements—City let contract development South Boston Strandway to NEW YORK STATE DREDGING CORP., 17 Battery Pl., New York, about $803,180. Noted Nov. 16.

N. Y., New York—(Manhattan)—Low bidders installation cable feed lines part of Seventh Ave.-Lexington Ave. Rapid Transit R.R. were W. G. Stearns, 55 Myrtle Ave., Queens, $11,075; United Core Drilling Co., $15,900; Harper Machinery Co., 50 Church St., $18,400. These are unofficial totals.

N. J., Perth Amboy—Pier—Raritan Copper Works let contract to EAST JERSEY BRIDGE CO., 194 Smith St.

N. J., Woodcliff—Retaining Wall—Bd. Chosen Freeholders, Hudson County, let contract at Southerly Arch and Weehauken branch of Hudson Blvd. to W. J. COUGHLIN, 665 Newark Ave., Jersey City.

Penn., Philadelphia—Coal Yord—W. W. Chambers, Springfield Ave., let contract to T. S. JONES, 5113 Chester Ave., $12,000.

Pa., South Bethlehem—Swimming Pool and Gymnasium—Bishopthorpe Manor let contract 2-story, to BUTZ & GLADNER, Ainley Bldg., Allentown, $15,000.

Va., Norfolk—Coal Piers—Virginian Ry. let contract enlarging coal piers at Seawall's Point to WELLMAN-SEAVER-MORGAN CO., Cleveland.

W. Va., Fairmont—Coal Storage Bin—Consolidated Coal Co., Watson Bldg., let contract to HOLBERT & SPEDDEN, Jacobs Bldg., $25,000.

N. C., Northwilkesboro—Dam—City received low bid concrete dam across Reddies River to replace one destroyed by floods from Robbins & Rand, Winston Salem, about $17,000.

Miss., Bay St. Louis—(Official)—Seawall—City to build by day labor. D. U. Harris, Mobile, Ala., Engr. Noted Aug. 24.

La., Alexandria—Levee—Red River, Atchafalaya and Bayou Boeuf Levee Bd. let contract South Atlantic levee, Rapides Parish, to C. NORDSTROM; Coco Point to "V" levee, Avoyelles Parish, Bayou des Glaizes, to LOWER COAST CONSTRUCTION CO.

La., New Orleans—Levee—Bd. State Examiners received low bids as follows: Olga levee and revetment, J. W. Beck, earthwork, 23c., revetment, 90c.; Sarpy levee, Graner Contracting Co., 15.80c. per cu.yd.; Conrad revetment, H. C. Richarme, $2.15 per lin.ft.

Ohio, Dayton—Levee—Council let contract, along Miami River, to REICHELDERFER & SONS, Circleville, about $13,317. Noted Nov. 23.

Ohio, Lima—River Improvements—City let contract improving Ottawa River from west line Main St., City of Lima, to north right-of-way of Erie Railroad Co., northwest quarter of Sect. 1, Shawnee Township, Allen County, to I. H. JONES, Fostoria, $57,857. Noted Nov. 23.

Ind., Peru—Levee and Retaining Wall—City let contract to R. SULLIVAN. Noted Nov. 9.

Mich., Detroit—Subway—J. L. Hudson Co. let contract across Farmer St. and Library Park Ave. to J. A. MERCIER, 216 Hammond Bldg. Noted Nov. 2.

Ill., Rock Island—(Official)—Fire House—City let contract, 42nd Ave. and 12th St., to J. SIEVERS, Rock Island. Noted Nov. 30.

Wis., Superior—Dock—Northern Pacific Ry. let contract extension to ore dock to SIENS, HELMERS & SCHAFFNER CO., St. Paul. About $175,000. Noted Nov. 23.

Mo., Hardin—Levee—Bd. Levee Dist. No. 4 let contract 92,000 cu.yd. levee to F. E. BRUNWORTH, Hardin, about $11,960. Noted Nov. 16.

Ore., Portland—Dock—Columbia River Shipbuilding Co. let contract to COWLITZ BRIDGE CO., Yeon Bldg.

Ore., Portland—Slips—Multonomah County let contract repairing slips Burlington Ferry to JACONSEN CONSTRUCTION CO., McKay Bldg.

Calif., Los Angeles—Grading—Bd. Education received low bids grading athletic field and building concrete structures, Lincoln High School, from Wattson & Spicer, Wright & Callender Bldg., $10,000; R. H. McCray Co., 234 West 28th St., $12,000; R. A. Baker & Son, 6050 Pasadena Ave., $15,500.

Calif., Richmond—Fill—City received bids mud fill in inner harbor from Standard American Dredging Co., 414 13th St., Oakland, $39,376; San Francisco Bridge Co., $43,240; American Dredging Co., $52,900.

Calif., San Francisco—Wharf—City let contract at fuel, oil and garbage station to HEALY-TIBBETS CONSTRUCTION CO., Main and Market St.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Me., Rumford—Church—Methodist Episcopal Church Society plans 1- and 2-story, 60x120-ft. About $40,000. H. S. Coombs, Lisbon St., Lewiston.

Mass., Springfield—Primary School—City making plans 2-story, 68x156-ft. addition. B. H. Seabury, Besse Bldg., Arch.

Mass., Williamstown—Library—Williams College making plans additions. About $100,000. A. Harding, Pittsfield, Arch. Noted Dec. 14.

Mass., Lawrence—Temple—Lawrence F. & A. M. making plans 4-story terra cotta. G. H. Adams, 288 Essex St., Lawrence.

R. I., Providence—Administration Building—Order of Dominican Fathers, care of Rev. F. Meaghey, 869 Lexington Ave., New York, making plans, on Eaton St. M. Sullivan, 100 Boylston St., Boston Arch.

Ct., Torrington—School—Town making plans. W. E. Hunt, Arch.

Ct., Waterbury—Y. M. C. A. plans building. About $350,000

N. Y., Albany—School—Cathedral Immaculate Conception, 12 Madison Pl., made plans. Rev. J. A. Delaney, Pastor.

N. Y., Buffalo—Polish Business Men's Association, Black Rock plans, 2-story building. About $75,000. W. S. Kaczmarek, 399 Amherst St., Buffalo, Pres.

N. Y. Buffalo—School—Bd. Education made plans Buffalo Dist. About $180,000.

N. Y., New York—(Manhattan)—(Official)—Office—Holwaothy Chambers, 100 William St. receiving bids 16-story, 49.4x95-ft. at Madison Ave. and 32nd St. About $200,000. W. L. Rouse and L. A. Goldstone, 38 West 32nd St., Manhattan, Arch.

N. Y., New York—(Manhattan)—(Official)—Bank-Guarantee Trust Co., 140 Broadway, receiving bids 4-story, 48x73.5-ft. brick, Madison Ave. and 60th St. About $100,000. Cross & Cross, 10 East 47th St., Manhattan, Arch.

N. Y., North Tarrytown—Isaac Rice Memorial Hospital making plans several buildings. About $200,000. H. B. Herts, 507 5th Ave., New York, Arch.

N. Y., Norwich—Office—Norwich Pharmacal Co. plans, Piano St.

N. Y., Rochester—Nurses' Home—Iola Sanitarium making preliminary plans 2-story, 38x110-ft. About $50,000. H. W. Cutler, 312 Cutler Bldg., Rochester, Arch.

N. Y., Syracuse—Theater and Office—Keith & Albee, 1564 Broadway, New York, making plans 1-story, 72x208-ft. About $500 000. T. W. Lamb, 644 8th Ave., New York, and A. E. Westover, Keith's Theater Bldg., Philadelphia, Arch.

N. Y., Syracuse—Home—Syracuse Lodge No. 625, Loyal Order of Moose made plans. About $100,000. P. J. Guilfoyle, Treas.

N. Y., Williamsville—High School—Bd. Education retained M. C. Miller, Arch., 611 Mutual Life Bldg., Buffalo, to make plans, Academy and Eagle St. Noted Sept. 28.

N. J., Cape May—High School—Bd. Education plans on Washington St. About $100,000.

N. J., Montclair—School—Bd. Education making revised plans 2-story addition to Watching School. Noted Aug. 10.

N. J., Montclair—School—Bd. Education making revised plans 2-story addition to Nishuane School. About $175,000. Starrett & Van Vleck, 8 West 4th St., New York, Arch. Noted Aug. 10.

N. J., Richfield Park—High School—Town making plans 3-story, 63x125-ft. About $90,000. E. Sibley, Palisades Park, Arch.

Penn., Ambridge—(Official)—Grade School—Bd. Education receiving bids Feb. 1, 2-story, 166x312-ft. About $45,000. W. W. Williams, Magee Bldg., Pittsburgh, Arch. Noted Dec. 14.

Penn., Irwin—Church—Immaculate Conception Congregation plans at Main and Oak St. About $75,000. J. T. Comes, Renshaw Bldg., Pittsburgh, Arch.

Penn., Kulpmont—Church—Grace Evangelistic Lutheran Congregation making plans 1½-story, 50x120-ft. About $40,000. J. A. Dempwolf, Cassett Bldg., York, Arch.

Penn., Olyphant—Parochial School and Hall—St. Cyril's Church making plans 3-story, 46x100-ft. About $40,000. T. Preitz, 1306 St. Ann St., Arch.

Penn., Philadelphia—State Capitol Comn. plans building on Parkway, between 20th and 21st St. R. J. Beamish, Monterey Apts., Philadelphia, Chn.

Penn., Pittsburgh—Hotel—Schenley Hotel plans addition. About $500 000. Rutan & Russell, Magee Bldg., Arch.

Penn., Rochester—Hospital—Rochester General Hospital receiving bids in spring 3-story addition. About $50,000. F. J. Merrick, Empire Bldg., Pittsburgh, Arch. Noted Nov. 2.

Penn., Scranton—Parochial School—St. Vladimir Greek Church making plans 3-story, 43x130-ft. About $40,000. J. J. Howley, Traders' Bank Bldg., Arch.

Del., Wilmington—Clubhouse—Elks' Home Building Association making plans 4-story, 40x100-ft. About $40,000. J. D. Thompson, Ford Bldg., Arch.

Md., Baltimore—Labor Temple—Baltimore Federation of Labor plans.

Wash., D. C.—Hotel—R. S. Downs plans 15th and Pennsylvania St. About $2,500,000.

Wash., D. C.—Temperance Bd. of Methodist Church plans building. About $150,000 or $200,000.

Wash., D. C.—Office—C. H. Davidson plans 12-story at 15th and K St.

W. Va., Pence Springs—Hotel—Pence Springs Hotel Co. soon receives bids, 3-story. About $40,000. Meanor & Sweeney, 917 R. & P. Bldg., Huntington, Arch. Noted Mar. 2.

N. C., Baden—Lodge and Theater—Aluminum Co. of America soon receives bids 3-story, 52x124-ft. About $125,000. H. E. Kennedy Co., Home Trust Bldg., Pittsburgh, Penn., Arch. Noted Nov. 23.

N. C., Greensboro—Hotel—Chamber of Commerce promoting organization of Greensboro Hotel Co., with $75,000 capital stock, to build hotel at Elm St. About $300,000. E. P. Wharton, Chmn. Com.

Ga., Atlanta—Flynn Realty Co. plans on Peachtree St. About $500,000. A. Brown, Realty Trust Co. Bldg., Arch.

Ga., Augusta—Bd. Education approved plans to rebuild Tubman High School. About $100,000. G. L. Preacher, Arch. Noted Nov. 23.

Ga., Leesburg—Courthouse—Lee County making plans 2-story, brick and concrete. About $45,000. J. J. Baldwin, Anderson, S. C., Arch. Noted Apr. 13.

Fla., Jacksonville—Church and Parish House—Church of Good Shepherd making plans. About 40,000. J. W. C. Corbusier, Cleveland and M. C. Greely, Jackson, Arch.

Ala., Mobile—School—City voted $150,000 bonds to build school.

Miss., Meridian—Hotel—Union Hotel increased capital $200,000 plans 3-story addition. About $15,000. P. C. Steele, Pres.

La., New Orleans—Lodge—New Orleans P. W. C. A. plans. About $80,000.

La., New Orleans—J. X. Wegman and A. O. Keefe plan to organize company to build business building. About $200,000.

Tenn., Knoxville—Y. M. C. A. plans building. About $125,000. Rev. L. G. Broughton, interested.

Ky., Covington—Home—Covington Industrial Club plans, on Madison Ave., next year. About $50,000. L. B. Wilson, Secy.

Ky., Louisville—Clubhouse—Athletic Club plans 5-story, 120x200-ft. brick, stone and terra cotta. About $300,000. B. B. Davis, Inter Southern Bldg., Arch.

Ohio, Avondale—(Cincinnati post office)—Church—St. Andrew's Congregation made plans on Blair Ave and Reading Rd. About $125,000. S. Hanaford & Sons, Arch.

Ohio, Chillicothe—Hotel, Theater and Store—A. Douglas and A. P. Herrmann, Chillicothe, made plans, 3-story. F. L. Packard, 1212 Hayden Bldg., Columbus, Arch.

Ohio, Cincinnati—Lodge, Terminal and Arcade—Dixie Terminal Co., 1602 First National Bank Bldg., plans 5-story, 100x260-ft. About $1,000,000. Garber & Woodward, 2303-5 Union Central Bldg., Arch.

Ohio, Columbus—Temple—Franklin County Odd Fellows plan on South High St. About $750,000.

Ohio, Galion—Grade and High School—Bd. Education receiving bids Jan. 1, 2-story. About $110,000. Howard & Merriam, Columbus, Arch. Noted Dec. 14.

Ohio, Lancaster—School—Bd. Education making plans 2-story. About $80,000. D. Riebel & Sons, 906 New First National Bank Bldg., Columbus, Arch.

Ohio, Lima—High School—City receiving bids Jan 15, South Side Technical High School. About $75,000.

Ohio, Marion—Hotel—Fireproof Hotel Co. receiving bids about Jan. 1, 8-story, 60x160-ft. About $125,000. Thies & Thies, Davies Bldg., Dayton, Arch. Noted Oct. 26.

Ohio, Middletown—Office and Administration Building—American Rolling Mill Co. soon lets contract. About $100,000. Werner & Atkins, 1206 Mercantile Library Bldg., Cincinnati, Arch.

Ohio, Sandusky—Hospital—Good Samaritan Hospital plans.

Ohio, Somerset—Grade and High School—Somerset School Dist. receiving bids Jan. 12. About $40,000. Rusk & Sheets, 145 High St., Columbus, Arch. Noted Nov. 23.

Ohio, Toledo—Hospital—Toledo Catholic Diocese made plans 6-story, at Madison Ave. and 23rd St. M. J. Sturm, 116 South Michigan Blvd., Chicago, Ill., Arch.

Ind., Columbia City—(Official)—City soon receives bids building. Church & Cover, Ft. Wayne, Arch. Noted Dec. 14.

Ind., Indiana Harbor—Church—St. Johns of Contius Congregation receiving bids about Feb. 1, 1-story, 80x140-ft. About $100,000. Worthmann & Steinbach, 155 North Clark St., Chicago, Arch.

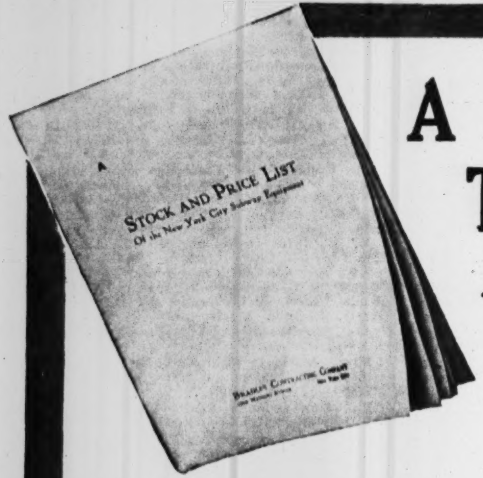
Ind., Indianapolis—Indiana University—School of Medicine making plans building. C. P. Emerson, Dean.

Ind., Indianapolis—Y. W. C. A. plans building on North Pennsylvania St. About $200,000.

Ind., South Bend—Conservatory and Auditorium—St. Mary's College and Academy making plans About $100,000.

SPECIAL OPPORTUNITIES SECTION

Second Hand Equipment


A
Stock and Price List
Of the New York City Subway Equipment
Bradley Contracting Company
New York City

A Few Items From The Bradley Price List

—Clip the Coupon And Get the List Itself

Item

PUMPS

116 7 Edison Hand 3-in. Diaphragm Pumps.
117 1 Cameron Steam Sinking Pump, size 6x4 and 6x7.

LAMBERT TWO-DRUM ELECTRIC HOISTERS

120 1 60-hp. Lambert 2-Drum Electric Hoister No. 9332, direct-current motor, hoist No. 9332, motor No. 210539, volts 230, amp. 220, hp. 60, speed 500, swinging gear attached.
121 1 60-hp. Lambert 2-Drum Electric Hoister No. 9314, direct-current motor hoister No. 9314, motor No. 200067, volts 230, amp. 220, hp. 60, speed 500, swing gear attached.
122 1 60-hp. Lambert 2-Drum Electric Hoister No. 9390, direct-current motor, hoist No. 9390, motor No. 210631, volts 230, amp. 220, hp. 60, speed 500, swing gear attached.
123 1 60-hp. Lambert 2-Drum Electric Hoister No. 9318, direct-current motor, hoist No. 9318, motor No. 199524, volts 230, amp. 220, hp. 60, speed 500, swing gear attached.
124 1 60-hp. Lambert 2-Drum Electric Hoister No. 9394, direct-current motor, hoist No. 9394, motor No. 210706, volts 230, amp. 220, hp. 60, speed 500, swing gear attached.
125 1 60-hp. Lambert 2-Drum Electric Hoister No. 9354, direct-current motor, hoist No. 9354, motor No. 210538, volts 230, amp. 220, hp. 60, speed 500, swinging gear attached.
127 1 60-hp. Lambert 2-Drum Electric Hoister No. 9392, direct-current motor, hoist No. 9392, motor No. 210625, volts 230, amp. 220, hp. 60, speed 500, swinging gear attached.
128 Lambert 1-Drum Electric Telpher No. 9444, direct-current motor No. 199438, hp. 84, volts 230, amp. 310, speed 475, all complete.
129 1 Lambert 1-Drum Electric Cage Hoister No. 9328, direct-current motor No. 912634, hoist No. 9328, motor No. 912634, volts——, amp.——, hp.——, speed. ——.

LAMBERT TWO-DRUM ELECTRIC CABLE-WAY AND ENGINES

130 1 40-hp. 2-Drum Lambert Electric Cable-Way Engine No. 8146, direct-current motor, hoist No. 8146, motor No. 694948, volts 220, amp. 157, hp. 40, speed 525, with cable-way.
131 1 40-hp. 2-Drum Lambert Electric Cable-Way Engine No. 9000, direct-current motor, hoist No. 8148, motor No. 694949, volts 230, amp. 157, hp. 40, speed 525, with cable-way.
132 1 40-hp. Lambert 2-Drum Electric Cable-Way Engine No. 8148, direct-current motor, hoist No. 8144, motor No. 701996, volts 220, amp. 157, hp. 40, speed 525, with cable-way.
133 1 50-hp. Lambert 2-Drum Electric Cable-Way Engine No. 8316, direct-current motor, hoist No. 8316, motor No. 439-032, volts 220, amp. 157, hp. 50, speed 500, with cable-way.
134 1 40-hp. Lambert 2-Drum Electric Cable-way Engine No. 8144, direct-current motor, hoist No. 9000, motor No. 598849, volts 220, amp. 156, hp. 40, speed 525, with cable-way.

LAMBERT TWO-DRUM STEAM HOISTING ENGINES

140 1 Lambert 2-Drum Steam Hoisting Engine No. 9852, size 12x14, with independent swinging gear engine No. 9876, size 7x10, and tumble drum, with steel derrick, 68th St. and E. R.
141 1 Lambert 2-Drum Steam Hoisting Engine No. 9850, size 12x14, with independent swinging gear engine No. 9874, size 7x10, and tumble drum, with steel derrick, 96th St. and E. R.
142 1 Lambert 2-Drum Steam Hoisting Engine, size 7x10, skeleton
143 1 Lambert 2-Drum Steam Hoisting Engine, 7x10, skeleton.
144 1 Lambert 2-Drum Steam Hoisting Engine, 7x10, skeleton.
145 1 Lambert 2-Drum Steam Hoisting Engine, 7x10, skeleton.
146 1 Lambert 2-Drum Steam Hoisting Engine, 7x10, skeleton.
150 1 Lambert 2-Drum Steam Hoisting Engine No. 2138, upright boiler attached, hoist No. 2138, boiler No. 5143, 7 in. x 10 in.
151 1 Lambert 2-Drum Steam Hoisting Engine, Lambert upright boiler No. 5291, hoist No. 2028, boiler No. 5291, swinging gear attached, 7 in. x 10 in.
153 1 Lambert 2-Drum Steam Hoisting Engine No. 8364, no plate, upright boiler attached, hoist, boiler, swinging gear attached, 8½ in. x 10 in.

LAMBERT STEAM CABLE-WAY AND ENGINES

180 1 Lambert 2-Drum Steam Cable-Way Engine No. 2244, upright boiler attached, engine No. 2244, boiler No. 5524, size 8½x10, boiler 30 hp., with cable-way.
183 1 Lambert 2-Drum Steam Cable-Way Engine No. 3724, upright boiler attached, size 8½x10, boiler 30 hp., with cable-way.

LAMBERT 1-DRUM STEAM CAGE HOIST ENGINES

190 1 Lambert 1-Drum Steam Cage Hoisting Engine No. 9278, 9½ in. x 10 in.
191 1 Lambert 1-Drum Steam Cage Hoisting Engine No. 9276, 9½ in. x 10 in.
192 1 Lambert 1-Drum Steam Cage Hoisting Engine, 10½ in. x 10½ in.

DERRICKS

203 1 Lambert 14x14 Wooden Stiff Leg Derrick, mast 20 ft., boom 35 ft., bull wheel 11 ft. 8 in.
204 1 Lambert 14x14 Wooden Stiff Leg Derrick, mast 20 ft., boom 35 ft., bull wheel 11 ft. 8 in.
207 1 Lambert 14x14 Wooden Stiff Leg Derrick, mast 23 ft., boom 35 ft., bull wheel 12 ft.
209 1 Lambert 14x14 Wooden Stiff Leg Derrick, mast 23 ft., boom 35 ft., bull wheel 12 ft.
210 1 Lambert 14x14 Wooden Stiff Leg Derrick, mast 23 ft., boom 35 ft., bull wheel 12 ft.
211 1 Lambert 14x14 Wooden Stiff Leg Derrick, mast 23 ft., boom 35 ft., bull wheel 12 ft.
212 1 Lambert 14x14 Wooden Stiff Leg Derrick, mast 23 ft., boom 35 ft., bull wheel 12 ft.
214 1 Pipe Derrick.
215 1 Jenewink Derrick.
216 1 Jenewink Derrick.
217 5 Set Cable-Way Towers, 10x10, 33 ft. high, some with rigging complete.
218 1 Set Cable-Way Towers, 10x10, 1 long and 1 short tower, 30 ft. and 16 ft. } Goes with cableway and engine.
219 4 Cable-Way Track Platforms. }

Continued Next Week

Space permits the listing of only a few of the hundreds of items. Those enumerated above, however, will give you an idea of the completeness of the assortment. Watch this space next week for the continuation.

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Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Connecticut—Lordship Co. voted to apply to General Assembly for right to lay trolley tracks on numerous streets. M. C. Connell, 1188 Main St., Gen. Mgr.

Virginia—H. R .Booker, Nelson D. Groome and H. H Holt granted franchise by Council, Hampton, railway spur from Mallory Ave. to city limits.

Virginia—W. G. Coutts, Big Stone Gap, and associates, coal and coke interests, interested in railway from Lee County, Va., to Harlan County, Ky.

West Virginia—Pittsburgh & West Virginia Railway Co., successor to Wabash-Pittsburgh Terminal Co., plans line from Wellsburg to Beech Bottom, about 2 mi. F. J. Brunner, Wellsburg, Secy.

South Carolina—Charlotte, Monroe & Columbia R.R. plans to extend line from Jefferson, S. C., northwest to Monroe, N. C., about 25 or 30 mi. J. E. Hancock, Hamlet, N. C., Gen. Mgr.

Mississippi—Indianapolis capitalists, Ind., plan electric railway from Vicksburg to Jackson, about 40 mi. east. Address H. C. McCabe, Secy., Vicksburg Young Men's Business Club.

Tennessee—Mathieson Alkali Works, Saltville, soon lets contract line from Saltville to Mendota, about 32 mi.

Michigan—Pere Marquette Ry. plans to rebuild main line on Holland-Pentwater branch from Muskegon to Holland with 90-lb. rails next year. A. L. Grandy, Detroit, Ch. Engr.

Illinois—Southern Illinois Light and Power Co., Hillsboro, plans to extend Taylor Springs line to smelter American Zinc Co., about ½ mi. J. J. Frey, Hillsboro, Gen. Mgr.

Minnesota—L. W. Hill, Pres. Great Northern Ry., announced that all railroads of St. Paul joined project to build belt line railway around city from point north Hazel Park to South St. Paul. About $2,000,000.

Kanas—Colorado, Kansas & Oklahoma R.R. made preliminary plans for line from Scott City, Kan., to Forgan, Okla. B. L. Allen, Russell Springs, Okla., Ch. Engr. Noted Nov. 9.

Kansas—Oklahoma & Northern Traction Co. will ask Council, Columbus, franchise to build and operate interurban railway into and through city. W. K. Palmer, Bartlesville, Okla., Ch. Engr.

Texas—Houston, Richmond & Western Traction Co. lets contract supplies and equipment line from Houston to San Antonio, 190 mi., about February or March. W. A. Reinhardt, Houston, Vice-Pres. and Gen. Mgr. Noted Nov. 9.

Idaho—Boise Valley Traction Co. granted franchise by Council, Caldwell, line along Cleveland Blvd. H. F. Dicke, Boise, Gen. Mgr.

California—Ocean Shore R.R. operating 38 mi. line from San Francisco, Calif., to Tunitas, projected extension from Tunitas to Swanton, 26 mi. J. G. Sutton, 52 11th St., San Francisco, Gen. Mgr.

Quebec—Quebec Central Ry. making plans extension from Scotts, Que., to connection with Transcontinental Ry. at Diamond Junction, 19.3 mi. J. H. Walsh, Sherbrooke, Gen. Mgr.

Ontario—I. D. Smith, Baysville, interested in movement to build hydro-radial road from Gravenhurst to Baysville bringing Lake of Bays in rail connection with Grand Trunk Ry. about 22 mi. Project placed before Hydro-Electric Comn. and preliminary survey made.

British Columbia—Bd. Trade, New Westminster, negotiating with British Columbia Electric Ry. for assistance to build industrial spur on Lulu Island. A. G. Eddy, Engr., estimates cost of about 3 mi. trackage, 1½ mi. on either side and paralleling shore at $65,000. A. W. Gray, Com. of Bd. Trade.

Bids In and Contracts Awarded

Louisiana—New Orleans & Lower Coast Railroad Co. organized to succeed New Orleans, Ft. Jackson & Grand Isle Railroad Co. announced that extension from Buras to Venice about 16 mi., to be built by company forces. G. Janvier, New Orleans, Secy. Noted Dec. 21.

LIGHT, HEAT AND POWER

Proposed Work

N. C., Durham—Durham Traction Co. plans to spend $30,000 to improve power plant.

Ky., Paducah—City plans enlarging electric-light plant. F. N. Garns, Mayor.

Ohio, St. Marys—City sold $45,000 bonds to improve electric-light plant and water system. F. Froehlich, Second National Bank Bldg., Toledo, Engr. Noted Dec. 7.

Wis., Knapp—City plans electric-light system. A. S. Wells, Secy. Wells Electric Construction Co., New Richmond, interested.

Minn., Victoria—Waconia Light and Power Co. granted franchise, transmission line.

Kan., McCracken—See item under "Water-Works."

Tex., Atlanta—Atlanta Electric and Ice Co. making plans rebuilding plant destroyed by fire. Loss $30,000.

Tex., Bowie—City voted to purchase electric-light plant, plans extending and improving.

Tex., Forney—Council plans electric-light system.

Tex., Houston—Baptist Sanitarium plans power house. About $8,000.

Okla., Stroud—See item under "Water-Works."

Bids In and Contracts Awarded

Mass., West Roxbury—(Boston post-office)—City let contract additions boiler house to POWER, HEAT AND VENTILATING CO., 63 Beverly St., Boston. About $34,015.

Mich., Verona—Coats & Tweed Mining Co., Duluth, Minn., let contract central heating plant, machine shop, power house, etc., to FOSTER CONSTRUCTION CO., Caswell Blk., Milwaukee, Wis.. $175,000.

BRIDGES

Proposed Work

N. Y., Lake George—Warren County plans to replace bridge across Hudson River between Riverside and Thurman. About $30,000. B. E. Murray, Lake George, Supt. Highways.

N. J., Salem—Salem County receiving bids in January bridge over Salem River. About $75,000. Address County Clk., Salem. Noted Nov. 16.

Pa., Norristown—Montgomery County soon receives bids bridge over Wissahickon Creek on Chestnut Hill Rd. near Ambler. About $6,000. Address County Clk., Norristown.

Pa., Williamsport—City made plans bridge over Grafius Run at Louisa St. J. B. Otto, City Engr.

N. C., Scotland Neck—Halifax, Bertie and Northampton Counties plan bridge over Roanoke River. Address County Clk., Halifax.

Fla., Quincy—Gadsden County voted bonds to build bridge across Apalachicola River on old Spanish Trail. Address County Clk., Quincy.

Ala., Demopolis—Warrior Bridge Co., incorporated with $50,000 capital stock to build bridge over Warrior River. W. S. Prout, Demopolis, Pres.

Ala., Lafayette—Chambers County receiving bids Jan. 13 substructure, bridges over Osanippa and Davis Creeks on State Highway near Fairfax. S. E. Fitch, Lafayette, County Engr.

Miss., Bay St. Louis—City plans highway bridge across St. Louis Bay. About $800,000.

Miss., Canton—See item under "Streets and Roads."

La., Oberlin—See item under "Streets and Roads."

Tenn., Memphis—Southern Ry. plans bridge at Monroe Ave. B. Herman, Washington, D. C., Ch. Engr.

Ky., Louisville—Jefferson County Fiscal Court and Park Comn. plans rein.-con. bridge over Paddy's Run. About $10,000. Address County Clk., Louisville.

Ky., Williamsburg—Whitley County to let contract in January, 100-ft. and 300-ft. span bridges. B. F. Rose, Williamsburg, County Judge.

Ohio, Bucyrus—Crawford County Comrs. receiving bids Feb. 1 bridge across Sandusky River at Gay St. About $15,000. Address County Clk., Bucyrus. Noted Aug. 24.

Ohio, Dayton—Montgomery County receiving bids Jan 13 steel superstructure bridge No. 21 Madison Township, and steel superstructure bridge No. 55, Madriver Township. V. C. Smith, Dayton, County Engr.

Ohio, Galion—Crawford County receiving bids Feb. 1 bridge on Gill St. About $10,000. O. H. Biebenhauser, Bucyrus, Audr. H. Keller, Court House, Bucyrus, Engr. Noted Oct. 5.

Ohio, Painesville—Lake County Comrs. rejected bids raising Furnace Bridge. Revised plans being made. Address County Clk., Painesville.

Ind., Auburn—DeKalb County receiving bids in spring concrete bridges in various townships. S. P. Nelson, Auburn, County Audr.

Ind., Decatur—Adams County making plans several bridges. P. Macklin, Decatur, County Surv.

Ind., Richmond—Wayne County Comrs. appropriated $180,000 for Main St. bridge and $185,000 for South G St. bridge over Whitewater River. Address County Clk., Richmond. Noted Sept. 14.

Mich., Detroit—City votes in spring on bonds rein.-con. permanent bridge connecting city with Belle Isle subway approach from mainland at Jefferson Ave. M. E. Cooley, University of Michigan, Chn. Noted Dec. 14.

Ia., Knoxville—(Official)—Marion County receiving bids Jan. 18 pony truss bridge. About $4,888. W. O. Price, Knoxville, County Engr.

Ia., Knoxville—(Official)—Marion County receiving bids Jan. 18 pony truss bridge. About $5,802. W. O. Price, Knoxville, County Engr.

Ia., Marion—Bd. Superv. Linn County soon receives bids bridge on Troy Mills Rd. Address County Clk., Marion.

Minn., Wheaton—Traverse County receiving bids Jan. 2, 3 steel bridges. J. T. Erickson, Wheaton, County Audr.

Kan., Concordia—Cloud County receiving bids Jan. 2, 9 rein-con. bridges. G. C. Guillbert, Concordia, County Clk.

Kan., Wichita—Sedgwick County receiving bids Dec. 30 bridges in Riverside, Salem and Delano Townships. E. V. Monroe, Wichita, County Engr.

Neb., York—York County receiving bids Jan. 9 rein.-con. bridge. A. H. Beck, York, County Clk.

S. D., Deadwood—Lawrence County receiving bids Jan. 8 bridges, abutments, etc. F. Harris, Deadwood, County Audr.

S. D., Watertown—Codington County receiving bids Jan. 2 bridge over Sioux River. Address County Clk., Watertown.

N. D. Cavalier—Pembina County receiving bids Jan. 5, 8 bridges. W. W. Felson, Cavalier, County Audr.

Mont., Hardin—(Official)—Big Horn County defeated $37,000 bonds for bridge over Big Horn River. J. E. Graham, Hardin, County Engr. Noted Dec. 7.

Mo., Fulton—Callaway County plans steel bridge over Gow Creek on Williamsburg-Readsville Rd. W. P. Divers, Fulton, County Surv.

Mo., Warrensburg—(Official)—Johnson County receiving bids Jan. 16, 16 steel bridges. Noted Nov. 2.

Tex., Emory—Rains County plans bridge at Free Bridge Crossing over Sabine River. Address County Clk., Emory.

Tex., Galveston—City made plans reconstructing damaged portion Galveston causeway. Concrete-Steel Engineering Co., Park Row Bldg., New York, Engr.

Idaho, Lewiston—Nez Perce County plans election to vote on $200,000 bonds to build 4 bridges over Clearwater River and purchase of bridge crossing Clearwater River on 18th St. Address County Clk., Lewiston.

Bids In and Contracts Awarded

Mass., Franklin—Milford, Attleboro & Woonsocket St. Railway Co., 500 Main St., Springfield let contract bridge to F. T. LEY & CO., INC., 499 Main St., Springfield. About $5,000. Noted Dec. 7.

N. J., Trenton—Pennsylvania Railroad Co. let contract steel bridge at Whiteroad Rd. to BRAUN & STEWART CO., Commercial Trust Bldg., Phila, Pa., $20,000.

W. Va., Wheeling—Ohio County Comrs. received low bids bridges (a) Battle Run, (b) Middle Wheeling Creek from D. Lew, (a) $3,140, (b) No. 1, $4,560, (b) No. 10, $4,210; Concrete Bridge Co., Clarksburg, (a) $3,727, (b) No. 1 $6,300, No. 10, $6,244; Ferris Engineering Co., Pittsburgh, Pa., (a) $3,500, (b) No. 1, $5,572, No. 10, $10,600. Address County Clk., Wheeling.

Ga., Atlanta—Council let contract Edgewood Ave. bridge to R. M. WALKER, Atlanta. Noted Nov. 16.

Ga., Vienna—Dooly and Sumpter Counties let contract bridge over Flint River at Murray's Ferry to SOUTHERN BRIDGE CO., Birmingham, Ala., $11,200. Noted Nov. 9.

Wis., Appleton—Chicago & Northwestern Railroad Co. let contract rebuilding bridge over Fox River to W. W. GAFFIN, 268 Sheboygan St., Fond du Lac, $35,000.

Wis., Weblake—Joint Town and County Com. let contract steel bridge over Namakagan River to H. A. ROUSH, Webster, $4,056. Noted Dec. 14.

WATER-WORKS

Proposed Work

N. Y., Canton—Village Trustees retained C. E. Perry, Albany, to make plans water system. Noted Dec. 7.

N. J., Dover—Bd. Water Comrs. plans addition to water system. C. P. Cook, Supt.

N. J., Ogdensburg—City granted permission by North Jersey Water Supply Comn. to develop additional water supply for city service from branch of Walkill River. Plans being made diverting dam, reservoir, filter plant and pipe line. About $100,000.

N. J., South Orange—Town Officials granted permission by Bd. Freeholders, Essex County, water lines in South Orange Ave.

Pa., Centralia—Wyoming Valley Water Supply Co. made plans dam in Brush Valley, and reservoir in Aristes to furnish Centralia. H. J. Heffner, Wilkes-Barre, Supt.

Pa., Danville—City retained Chester & Fleming, Hydraulic Engr., Union Bank Bldg., Pittsburgh, to make plans water system.

Pa., Pittsburgh—Denny Estate granted permit steel tank and pump shed foot 35th St., 6th Ward. About $15,000.

Pa., Reading—Angelica Water and Ice Co. having plans made by W. H. Dechant & Son, Baer Bldg., reconstruction of water-works in Cumru Township. Noted Nov. 16.

Pa., Spring City—Bd. Trustees State Institute for Feebleminded of Easton, receiving bids Jan. 3, 18-in. terra cotta storm-water sewer with manholes, and concrete apron. P. H. Johnson, 1824-25 Land Title Bldg., Philadelphia, Engr.

Del., Newark—Council retained Kastenhuber & Anderson, Easton, Pa., to make plans improving water system. E. C. Wilson, Comr.

N. C., Belmont—City plans water-works and sewer systems. Address Mayor.

S. C., Liberty—City plans election to vote on bonds to build water system.

Ga., Savannah—Council plans 14,000 water meters. E. R. Conant, City Engr.

Miss., Woodville—City receiving bids Jan. 2 improving water and light plants. C. C. Cohen, Clk.

Miss., Yazoo City—Supervs. Yazoo County receiving bids Jan. 1 concrete reservoir on poorhouse premises and pipe line from spring to reservoir. S. S. Griffin, Yazoo City, Clk.

La., Bossier—City making plans water system, including 75,000-gal. steel tower. About $10,000. Honaker & Swope, Shreveport, Engr.

La., Logansport—City made plans water and sewer systems. About $20,000. Honaker & Swope, Shreveport, Engr.

Ky., Auburn—Town Bd. Trustees plans bond issue to install water system.

Ky., Murray—City receiving bids Jan. 15 sale of $20,000 bonds to build water-works. X. A. Kramer, Magnolia, Miss., Engr. Noted Nov. 23.

Ky., Scottsville—City plans to install water system. Surveys being made. Night & Quayle, Chattanooga, Engr.

Ohio, Bellaire—Council plans water main in Union St. About $16,000. J. Wilkinson, Supt.

Ohio, Fostoria—Council passed resolution to install new pumps at water-works. W. Lord, Supt.

Ohio, Geneva—Geneva Water Co. receiving bids Jan. 15 sedimentation tank and filter plant. About $6,000. J. Reeves, Supt. Noted Oct. 19.

Ohio, Kent—City plans $110,000 bond issue installing filters, pumps, boiler and additional piping. S. F. Messer, Supt.

Ohio, Martins Ferry—City making plans addition and extending water system. About $10,000.

Ohio, Newark—(Official)—Dept. Pub. Ser. receiving bids Jan. 3 for purchase of 1 200-hp. water-tube boiler, 3 horizontal return-tube boilers, 1 Hamilton Corliss engine, 1 Westinghouse exciter. G. Buchanan, Supt. W. C. Christian, Dir.

Ohio, St. Clairsville—City making plans water system.

Ohio, St. Marys—See item under "Light, Heat and Power."

Mich., Detroit—Water Bd. made plans filter plant, capacity 320,000,000 gal. About $4,000,000. T. A. Leisen, Water Bd., Engr. Noted Dec. 21.

Mich., Flint—City soon lets contract additions filter plant. W. L. Fisher, Supt.

Mich., Sault Ste. Marie—City plans c.-i. water mains in portions Portage Ave., Magazine, Ashmun and Maple St. R. A. Frederick, City Engr.

Ill., Oak Park—City receiving bids in February extending water pipe in portion Austin Blvd. W. F. Sargent, Village Hall, Engr.

Ill., Park Ridge—(Official)—Bd. Local Impvts. receiving bids Jan. 11 sewer system, water mains and appurtenances in Elm, Grace St., Greenwood and Chester Ave. Noted Dec. 7.

Ill., Peru—City making plans new reservoir. E. Byrne, Supt. Noted Aug. 31.

Wis., Denmark—(Official)—City receiving bids Jan. 2 drilling one or more 8-in. wells, 200 ft. deep. G. H. Rathke, Village Clk.

Ia., Huxley—City plans water system.

Ia., Massena—City plans water system. About $15,000.

Ia., Maxwell—(Official)—City voted $15,000 bonds to build steel tank and extending water mains. Noted Nov. 30.

Minn., Duluth—City soon receives bids large parallel supply main from 34th Ave., E., reservoir. D. C. Keefe, Supt.

Minn., Duluth—City soon receives bids water mains on 31st Ave. D. C. Keefe, Supt.

Minn., St. Paul—(Official)—City receiving bids Feb. 5, high-service rein.-con. covered reservoir at end of Dale St. G. O. House, Gen. Supt. Noted Nov. 16.

Kan., Caney—City made plans improving water system. Black & Veatch, 507 Interstate Bldg., Kansas City, Mo., Engr. Noted Sept. 14.

Kan., Caldwell—(Official)—City votes Jan. 23 $80,000 bonds to improve water and light plant. I. M. Horton, Mayor. Noted Oct. 19.

Kan., McCracken—City plans election to vote on $30,000 bonds to build water system and electric-light plant. W. B. Rollins & Co., 209 Railway Exchange Bldg., Kansas City, Mo., Engr.

Kan., Plainville—City plans water system. About $10,000. F. J. Hoss, Supt.

S. D., Sioux Falls—City plans to extend water mains on various streets. S. J. Towner, Supt.

Mont., Ft. Keogh—(Miles City post office)—Custer County receiving bids Jan. 6, 1 20-in. centrifugal pump. A. H. Swerdfiger, Miles City, County Audr.

Mont., Roman—City made plans water system. E. D. Covell, Engr.

Mo., Ozark—Christian County plans water-works in Ozark. J. C. Rogers, Ozark, interested.

Tex., Franklin—City plans water mains.

Tex., Houston—City plans auxiliary water plant on South Side. About $100,000. D. Fitzgerald, Supt.

Tex., Terrell—City plans reservoir, 200,000 gal. capacity. Address Mayor.

Okla., Drumright—City plans election to vote on $43,000 bonds to extend water system. A. J. Fogaley, Clk.

Okla., Oklahoma—City will readvertise bids to construct clear well and conduit at new water-works. Benham Engineering Co., Colcord Bldg., Engr. Noted Nov. 23.

Okla., Sapulpa—City plans gravity water line from reservoir to pumping station, 3 dams in Euchee Creek, 60 ft. long, 18 ft. wide, 15 ft. high. J. T. Schwab, Supt.

Okla., Tahlequah—City plans election in January to vote on $30,000 bonds to build water-works. J. R. Hicks, Supt. Noted Oct. 26.

Okla., Verdee—City plans water system. J. N. Kern, Mayor.

Colo., Colorado Springs—City made surveys water system. About $500,000. George P. Anderson, Los Angeles, Engr. Noted Aug. 17.

Colo., Trinidad—Council sold $28,000 bonds to build water-works system. W. R. Lewis, Supt.

Idaho, Blackfoot—Council plans to purchase and improve system Blackfoot Water Co.

Idaho, Rexburg—City votes January on $150,000 bonds to build water system. Cotton & Wilson, Engr., making plans. P. O. Thompson, Supt.

Utah, Hurricane—Town soon to vote on $20,000 bonds to install sanitary water system.

Utah, Magna—G. A. Rousell, W. Cooper and C. L. Bradford applied to Council franchise to build water system.

Nev., Elko—(Official)—City retained L. C. Kelsey, Consult. Engr., Portland, Ore., Twin Falls, Idaho to make plans water system. About $200,000.

Wash., Cheney—Citizens voted $10,000 bonds to improve water system.

Wash., Tacoma—F. C. Ross petitioned Pierce County Comrs. for franchise for water mains and distributing lines. About $100,000. O. Anderson, County Audr.

Calif., Sunnyvale—City receiving bids Jan. 15, $19,000 bonds to improve water system. Noted Dec. 7.

Ont., Hamilton—Council voted against proposition to build reservoir. About $428,250. Noted Dec. 7.

Ont., Sault Ste. Marie—J. W. S. McCullough, M. D., Provincial Health Officer, and A. V. Delaporte, Asst. Sanitary Engr., both of Toronto, were in city investigating new source water supply.

Ont., Thorold—Town Council receiving bids Dec. 30 supply turbine pipe and electric motor. L. S. O'Connor, Supt. Water-Works Noted Sept. 14

B. C., Trail—Council retained A. McCulloch, Engr., Nelson, to prepare estimate on improved water and sewer systems.

B. C., Victoria—Council reached agreement with Dominion government whereby government will build water main from city's Sooke Lake main to William Head quarantine station to supply station with water. About $125,000.

Bids In and Contracts Awarded

N. C., Clayton—(Official)—City let contract 650-ft. 6-in. and 2,000-ft. 8-in. c.-i. pipe, hydrants and valves to PORTER & BOYD, INC., Charlotte. About $32,000. Noted Dec. 7.

Fla., Jacksonville—City let contract relining water-works aërating basin, 1st and Main St., to SOUTHERN CONSTRUCTION CO., about $17,140. Noted Nov. 9.

Ohio, Lima—City received low bid improving water system from F. R. Jones Co., East 116th and Baldwin Ave., Cleveland. Noted Nov. 23.

Wis., Beaver Dam—City let contract furnishing 400 water meters to BUFFALO METER CO., 290 Terrace St., Buffalo.

Wis., Madison—City transferred contract enlarging pumping station, including 8,000,000 gal. pumping engine, horizontal cross-compound, from Allis-Chalmers Co., Milwaukee, to INDIANA AIR PUMP CO., Indianapolis, about $30,749. Noted Nov. 30.

Wis., Oshkosh—City let contract submerged crib and intake pipe water system to J. RASMUSSEN & SONS CO., Oshkosh, about $35,329.

Ia., Stuart—(Official)—See item under "Sewers."

Mo., St. Louis—City let contract clinker reservoir, Prospect Hill to FRUIN-COLNON CONSTRUCTION CO., Laclede Bldg. About $25,000.

Okla., Stroud—City let contract improving water system and electric-light plant to CHICAGO BRIDGE AND IRON WKS., 105th and Throop St., Chicago, Ill. About $30,000. Noted Nov. 16.

Okla., Wetumka—City let contract improving water and sewer systems to N. S. SHERMAN MACHINE AND IRON WORKS, Oklahoma, about $18,815. Noted Sept. 7.

Utah ,Salt Lake City—City Comr. let contract pumping plant for gravity outlet sewer to LYNCH CANNON ENGINEERING CO., Dooly Bldg., Salt Lake City, $18,625. Noted Dec. 21.

Ont., Collingwood—Water and Light Com. let contract chlorination plant to ELECTRO BLEACHING GAS CO., 18 East 41st St., New York.

Ont., Cornwall—City let contract water system as follows: Pumps to TURBINE EQUIPMENT CO., Toronto, $10,000, and wheels to KENNEDY & SONS, Owen Sound, $5,000. Noted Nov. 16.

SEWERS

Proposed Work

Mass., Springfield—Council passed ordinance sewer in Athol St. F. H. Clark, City Engr.

Ct., Waterbury—City plans storm sewer in Thomaston Ave. R. A. Cairns, City Engr.

N. Y., Binghamton—City to let contract in spring sewers on south side Susquehanna River and river crossing. W. E. Weller, City Engr.

N. Y., Jamestown—See item under "Bridges."

N. Y., Le Roy—(Official)—J. P. Wells, 344-345 Cutler Bldg., Rochester, is making surveys and estimates sewer system at Le Roy, N. Y., not Le Roy, N. J., as noted in issue of Dec. 14.

N. J., Bayonne—(Official)—City retained G. A. Johnson, Consult. Engr., 150 Nassau St., New York, make plans disposal plant. W. T. Clarkson, City Engr.

N. J., Glassboro—Whitney Glass Works making plans disposal plant. Devou & McGormley Co., Toledo, Ohio, Engr.

N. J., Little Falls—State Bd. Health arranging preliminary plans trunk sewer from Wharton to Little Falls, with 26 mi. lateral sewers. About $2,000,000.

N. J., Morris Plains—B. D. Evans, Supt. State Asylum for Insane made application to State for appropriation $40,000 disposal plant, $15,000 road work.

Pa., Elwood City—City soon receives bids sewer in Maple Way and Franklin Ave.

Va., Petersburg—City appropriated $8,500 storm sewer in River St. N. T. Patterson, Chn. Finance Com.

N. C., Belmont—See item under "Water-Works."

La., Logansburg—City making plans sewer and water systems. Honaker & Swope, Shreveport, Engr.

Ohio, Barberton——City plans disposal plant. About $100,000. H. W. Alcorn, City Engr.

Ohio, Canton—Council passed ordinance sanitary sewer portion Bedford Ave., N. W. W. E. Sarver, City Engr.

Ohio, Cincinnati—Council adopted resolutions sewers in Richter Ave. and Reading Rd. F. Krug, City Engr.

Ohio, Cuyahoga Falls—City receiving bids Jan. 1 sewer in Front St. About $60,000. E. D. Barstow, City Engr.

Ohio, Leetonia—E. G. Bradberry, Columbus, submitted plans disposal plant. About $28,000.

Ohio, Maumee—City plans trunk sewers. G. Champs, Toledo, Consult. Engr.

Ohio, Norwood—City soon receives bids sewer in Station Ave. About $5,000. J. G. Schmidt, City Engr. Noted Nov. 23.

Ohio, Oberlin—Council passed resolutions sewers in North Main and Union St.

Ohio, Piqua—City plans sewer portion Commerce St. A. Schroeder, City Engr.

Ohio, Swanton—City receiving bids Jan. 11 sewer Dist. No. 2. H. McKechnie, City Engr.

Sewers (Continued)

Ohio, Youngstown—Council passed resolution sewers portions Indiana and Manhattan Ave. F. M. Lillie City Engr.

Ind., Bicknell—City soon lets contract sewer system.

Ind., Indianapolis—City made revised plans, sewer in Brightwood Ave. About $80,000. B. J. T. Jeup, City Engr. Noted Oct. 12.

Ind., Indianapolis—Bd. Pub. Wks. made plans disposal plant. About $1,500,000. B. J. T. Jeup, City Engr.

Ill., Berwyn—City receiving bids about Jan. 15, extending sewers in 22nd and other streets. About $20,000. B. Strutzenberg, City Engr. Noted Nov. 30.

Ill., Cambridge—City plans 6 mi. sewers, 2 disposal plants, Imhoff type. About $42,000, for latter. H. G. Stokes, Kewanee, Engr.

Ill., Normal—City plans disposal plant and septic tank. T. Keys, City Clk.

Ill., Park Ridge—See item under "Water-Works."

Ill., Rock Island—City plans sewers in 18th Ave., 16th St., 2,340 ft. 12-in., 2,910 ft. 10-in., 8,450 ft. 8-in. vitrified pipe, 220 house connections, 15 flush boxes, 10 manholes and 2 tanks. W. Treichler, City Engr.

Wis., Milwaukee—(Official)—Sewerage Comn. receiving bids Jan. 11, construction and extension Intercepting Sewer System. J. H. Fowles, Secy. (See adv. Dec 21 issue.)

Ia., Dows—City made plans sewer system and disposal plant. About $22,000. M. Tschirgi & Sons, 712 American Trust Bldg., Cedar Rapids, Engr. Noted Nov. 9.

Ia., Marion—City plans sanitary sewer. About $4,217.

Minn., Red Lake Falls—City receiving bids Dec. 30, sewers. J. A. Wallace, Crookston, Engr.

Mont., Terry—Council plans voting bonds to install sewers.

Mo., Higginsville—(Official)—City receiving bids Jan. 3, disposal plant and sewer mains. Burns & McDonnell, Interstate Bldg., Kansas City, Consult. Engr.

Tex., Columbus—City plans disposal plant. J. H. Payne, Health Officer.

Tex., Forney—City made plans disposal plant. Myers & Noyes, Dallas, Arch.

Tex., Gainesville—City made plans disposal plant. About $35,000. H. H. Maire, Austin, Arch.

Tex., Honey Grove—City plans improving sewer system.

Tex., Mineral Wells—V. M. Ehlers, State Engr., approved plans disposal plant. About $25,000. Young & Lansay, San Antonio, Designing Engr. N. Werenskiold, Dallas, Consult. Engr. Noted Nov. 9.

Tex., Sulphur Springs—City plans additional treatment to disposal plant. R. D. Saunders, City Engr.

Tex., Tyler—City plans purchasing sewer system, also extending and improving. J. J. White, City Engr.

Okla., Carnegie—City making preliminary plans. About $25,000. Benham Engineering Co., Colcord Bldg., Oklahoma, Engr. Noted Dec. 23.

Okla., Drumright—City soon votes on $25,000 bonds to install storm sewers and culverts.

Okla., New Wilson—City to vote Jan. 5 on $30,000 bonds to install sewers.

Okla., Wetumka—See item under "Water-Works."

Idaho, Roxburg—City plans election in Jan. to vote on $50,000 bonds to build sewer system. Cotton & Wilson, Engr. Noted Mar. 9.

Bids In and Contracts Awarded

N. Y., Larchmont—Village Bd. Trustees let contract sewers in Vanderburgh and Chatsworth Ave. to M. DECICCO, Woodland Ave. Noted Dec. 14.

Miss., Oxford—Lafayette County Comrs. let contract sewer to A. W. WILLS & SON, Boatmen Bank Bldg., St. Louis, Mo., $100,000.

Ohio, Greenville—(Official)—City let contract 8,000-ft. storm sewer to W. J. IRWIN & SON, Greenville. About $56,668. Noted Nov. 30.

Ohio, West Park—Council let contract sewer No. 160, Lorain Ave., to MANSON CO., 120 Engineers' Bldg., Cleveland.

Ind., Mishawaka—Bd. Pub. Wks. let contract sewer portion 9th St. to NATIONAL CO., South Bend.

Ia., Stuart—(Official)—City let contract (a) sewer system, (b) disposal plant, (c) extending water system, to (a) DUNNEGAN & BRIGGS, Shenandoah, $33,293; (b) WARD & WEIGHTON, Sioux City, $8,900; (c) DUNNEGAN & BRIGGS, Shenandoah, $4,794. Noted Dec. 7.

Kan., Sedan—City let contract sewer system and disposal plant to KOEHLER CONSTRUCTION CO., 78th and Troost St., Kansas City, Mo., $39,870.

Mo., Kansas City—Bd. Pub. Wks. let contract sewer Dist. No. 334, Div. No. 5, to L. E. KOEHLER, 78th and Troost St., $14,987.

Tex., Frost—City let contract sewer system and disposal plant to ISAACS CO., Waco.

Tex., Llano—City let contract disposal plant to HALL CONSTRUCTION CO., Austin.

Okla., Oklahoma—City let contract sewers in Howes Capital Addition to C. T. DERR, 200 East Main St., $9,618.

Okla., Wetumka—City let contract water pipe to N. S. SHERMAN MACHINE AND IRON WKS., Oklahoma, $18,815.

Idaho, Pocatello—(Official)—City let contract sanitary sewers in Lateral Dist. No. 11 to STRANGE-MAGUIRE CO., Utah Savings and Trust Bldg., Salt Lake City, Utah, $11,075. Noted Dec. 7.

GARBAGE

Proposed Work

N. Y., New York—(Manhattan)—(Official)—R. A. C. Smith, Comr. Docks, Pier "A," foot Battery Pl., North River, Jan. 3, receiving and removing ashes by scows.

N. J., Trenton—City made plans 4 furnace addition to garbage disposal plant. About $30,000 H. C. Gregory, City Hall, Arch. Noted Oct. 26.

S. C., Charleston—City plans incinerator plant. J. H. Dingle, City Engr.

Ill., Aurora—City plans addition to crematory. M. J. Tarble, City Engr.

Mo., St. Louis—City plans election in May or June to vote on $250,000 bonds to build incinerating plant. E. R. Kinsey, Pres. Bd. Pub. Ser. Noted Jan. 27.

Tex., Dallas—City plans 4 incinerator plants. About $40,000 or $50,000.

Tex., Fredericksburg—City authorities desire information on modern garbage destructors. A. H. Kneese, Fredericksburg, interested.

Bids In and Contracts Awarded

N. Y., New York—(Bronx)—J. T. Fetherston, Comr. Street Cleaning, received low bids Dec. 21 removal of snow and ice during 1916-17 from Daniel Rogge, 51 Chambers St., Manhattan, 32.99c. cu.yd.; Model Contracting Co., 40c. cu.yd.; Fred Schneider, 41.5c. cu.yd. Noted Dec. 14.

Penn., Wilkes-Barre—City let contract collection and disposal of garbage and dead animals period of 10 years to WILKES-BARRE DISPOSAL CO. Noted Oct. 26.

STREETS AND ROADS

Proposed Work

N. Y., New York—(Richmond)—C. D. Van Name, Boro. Pres., New Brighton, S. I., receiving bids Jan. 3 grading and paving portion Portland Pl.

N. Y., Riverhead—Suffolk County plans to spend $510,070 for highway work in 1917. Address County Clk., Riverhead.

N. J., Keyport—City plans improving road from Matawan Creek Bridge to center of city; concrete.

N. J., Mt. Plains—See item under "Sewers."

N. J., Newton—Sussex County making plans improving Ross's Corner-Sussex Rd., about 7 mi., concrete. H. Snook, Newton, County Engr.

Pa., Pottsville—Schuylkill County plans to spend $50,000 to build roads in 1917. Address County Clk., Pottsville.

Pa., Wilkes-Barre—City plans to pave portion Stark St. B. K. Finch, City Engr.

Md., Cumberland—City soon receives bids paving Chase St., about 3½ mi., brick. About $75,000. R. L. Rizer, City Engr. Noted Oct. 19.

Md., Towson—Baltimore County Comrs. plan improving portions Wiseburg and Joplin Rd. Address County Clk., Towson.

Va., Chesterfield—Chesterfield County plans concrete roadway from Petersburg to Switch Creek. About $35,000. Address County Clk., Chesterfield.

N. C., Albemarle—Town Comrs. plan paving 1-mi. streets.

N. C., Franklin—Macon County, Cowee Township votes Jan. 15 on bonds to grade and macadamize roads. E. Johnson, Franklin, Clk.

S. C., Greenville—(Official)—City to let contract in spring, paving and sidewalks. About $130,000. W. F. B. Haynsworth, City Engr. Noted Oct. 19.

S. C., Greenwood—City plans to spend $7,500 for street paving. C. P. Ballenger. Engr.

Fla., St. Augustine—St. Johns County plans paving roads, brick. Address County Clk., St. Augustine.

Ala., Florence—City Comrs. plan paving Court St., vitrified brick on concrete. A. G. Wegley, City Engr.

Ala., Linden—Marengo County receives bids Jan. 18, 8 mi. sand-clay surface road from Dayton to Thomaston, and 2 mi. gravel or sand-clay road south of Linden. Address County Clk., Linden.

Miss., Monticello—Lawrence County voted $50,000 bonds to improve roads in Dist. No. 1. Address County Clk., Monticello. Noted Oct. 26.

Miss., New Augusta—Bd. Superv. Perry County sold $200,000 bonds to build 4 county roads with Federal Aid. Address County Clk., New Augusta. Noted Dec. 20.

Miss., Port Gibson—Town plans to pave various streets, concrete, about $20,000.

La., Colfax—Grant Parish, Rd. Dist. No. 8 votes March 13 on $150,000 bonds to build 33 mi. Jefferson Highway. Address Police Jury, Colfax. Noted Nov. 23.

La., Oberlin—Allen County, Rd. Dist. No. 2 plans election to vote on $750,000 bonds roads and bridges. C. Lindsay, Oberlin, Secy. Police Jury.

Tenn., Mountain View—City plans election in spring to vote on bonds to gutter and macadamize all streets. Contract soon to be let improving Bernon Ave. and Park Row. Survey being made to pave Taine St. and River Rd. H. H. Satery, Mayor.

Ky., Hazard—City plans to spend $50,000 curbing, guttering and sidewalks various streets.

Ky., Hindman—Knott County soon lets contract grading dirt roads. About $7,500. Address County Clk., Hindman.

Ky., Jenkins—City soon lets contract paving streets. About $40,000. Noted Dec. 14.

Ky., La Grange—Oldham County to issue $50,000 bonds to build roads and bridges in 1917. Address County Clk., La Grange.

Ky., Pineville—Bell County lets contract in spring improving 30 mi. State Aid roads. S. M. Bryant, Pineville, County Rd. Engr. Noted Nov. 16.

Ky., Prestonburg—City to let contract in January improving various streets. About $35,000.

Ohio, Akron—Summit County to spend $500,000 additional improving roads. Address County Clk., Akron.

Ohio, Belpre—Council passed ordinance paving 2nd and Maple St.

Ohio, Canton—Council passed ordinance to improve portion 11th St. W. E. Sarver, City Engr.

Ohio, Cincinnati—City plans improving portion 12th St. F. S. Krug, City Engr.

Ohio, Cincinnati—Hamilton County Comrs. authorized issue $67,500 bonds to pay county's share paving Springfield Pike, brick; $92,088 bonds county's share paving Cincinnati-Hamilton Pike, brick. Noted May 11.

Ohio, Cleveland—Cuyahoga County making surveys boulevard along Euclid Creek and Rocky River, about 15 mi. W. M. Freer, Landscape Arch.

Ohio, Columbus—City election in January to vote on $400,000 bonds to improve streets, including 3d, 4th, Main and Broad St. H. Maetzel, City Engr. Noted Dec. 7.

Ohio, Columbus—City receiving bids about Jan. 15 grading and paving North Commonwealth St., Drexel and North Columbia Ave. H. Maetzel, City Engr.

Ohio, Columbus—City plans improving portion High St. About $75,000. H. Maetzel, City Engr.

Ohio, Fostoria—Seneca and Wood County Comrs. plan improving 5½ mi. road between Fostoria and Toledo. About $10,000 macadam and $18,000 brick. Address County Clk., Fostoria.

Ohio, Frankfort—Ross County making plans, receiving bids in January grading and paving. W. Barrett, Chillicothe, County Audr.

Ohio, Johnstown—City to make preliminary survey to estimate cost paving portions East and West Coshocton St.

Ohio, Lakewood—Town passed resolution improving and paving Thrush, Kyle and Northwood St. E. W. Fischer, City Engr.

Ohio, Lancaster—City to vote on bonds to improve West Fair Ave. and Columbus St. J. Griggs, City Engr.

Ohio, Lima—City plans to improve Ontario St. B. H. Simpson, City Engr.

Ohio, Lisbon—Columbiana County received no bids Dec. 46.93 mi. brick and concrete roads, Madison Township. New bids. H. S. Armstrong, Lisbon, County Highway Supt. Noted Nov. 30.

Ohio, Lisbon—Columbiana County soon receives bids improving Cleveland-East Liverpool Rd. About $149,439. H. R. Dickey, Lisbon, County Clk.

Ohio, Norwalk—Council passed ordinance to issue $50,000 bonds to pave North Prospect, Elm, Corwin and Prospect St.

Ohio, Norwood—City voted bonds to extend sewers in portion Crown Ave. Bids soon received. About $5,000. J. G. Schmidt, City Engr.

Ohio, Portsmouth—Scioto County making plans 2 mi. paving on West Side Pike, resurfacing Tow Path Rd., rebuilding Scioto Trail through Lucasville and 3 mi. paving east of Wheelersburg. J. S. Harper, Portsmouth, County Engr.

Ohio, Portsmouth—City plans improving portion Bond St. P. G. Harper, City Engr.

Ohio, Urbana—Champaign County making plans, receiving bids Feb. 1 paving Urbana-West Jefferson Rd. W. S. Coffey, Urbana, County Audr.

Ohio, Wapakoneta—Auglaize County Comrs. plan paving portion St. Marys-Wapakoneta Pike. Address County Clk., Wapakoneta.

Ohio, Youngstown—Council passed ordinances to improve portions La Glede, Overland and Madison Ave. and Emmett and Alexander St. F. L. Lillie, City Engr.

Ohio, Youngstown—Council passed resolution to pave portion East Princeton Ave. F. M. Lillie, City Engr.

Streets and Roads (Continued)

Ind., Auburn—De Kalb County receiving bids Jan. 18 gravel road Franklin Township. S. P. Nelson, Auburn, Audr. Noted Sept. 14.

Ind., Bicknell—Council soon to let contract paving East Altor St., concrete. About $8,000.

Ind., Bloomington—Monroe County receiving bids Jan. 2 gravel roads Perry and Bloomington Townships. W. F. Kinser, Bloomington, Audr. Noted Apr. 20.

Ind., Cannelton—Perry County receiving bids Jan. 1 macadam road Tobin Township. M. C. Conway, Cannelton, Audr.

Ind., Ft. Wayne—City making plans paving Greenlawn and Winter St. F. M. Randall, City Engr.

Ind., Greenfield—Hancock County receiving bids about Jan. 1 improving Augusta-Smith Rd., Buckcreek Township, crushed stone; Wiggins Rd., Center Township, gravel. Address County Clk., Greenfield. Noted Dec. 14.

Ind., Kendallville—City making plans paving portion Diamond St.

Ind., Lebanon—Boone County receiving bids Jan. 2 road on line between Union and Marion Townships. C. Goodwin,, Lebanon, Audr.

Ind., South Bend—Park Bd. soon lets contract paving boulevard system between Howard and Leeper Parks. F. J. Anderson, City Engr.

Ind., South Bend—Bd. Pub. Wks. soon receives bids paving portion Portage Court. F. J. Anderson, City Engr.

Ind., Wabash—City making plans improving portion Huntington St. J. B. Chapler, City Engr.

Ind., Williamsport—Warren County receiving bids Jan. 8 roads in Medina, Warren and Washington Townships. Address County Clk., Williamsport.

Mich., Baraga—Baraga County plans election to vote on $110 000 to build trunk road system. State will appropriate $110,000 and Federal Aid will be $220,000.

Mich., Detroit—Bd. Superv. Wayne County appropriated $200,000 in addition to automobile tax of $300,000 to build roads. Address County Clk., Detroit.

Mich., Grand Haven—Bd. Superv. Ottawa County appropriated $91,400 road work. Address County Clk., Grand Haven.

Mich., Zeeland—City making plans paving. About $100,000. L. A. Boulay & Co., Nicholas Bldg., Toledo, Ohio, Engr.

Ill., Bloomington—Bd. Supervs. McLean County favors election to vote on $1 400,000 bonds to pave 234 mi. roads, brick or concrete. County has $97,000, including $24,196 State Aid funds available to hard-surface roads in spring. Contract soon to be let improving road from Tazewell County line to Cropsey. Address County Clk., Bloomington.

Ill., Cicero—City receiving bids about Feb. 1 paving portion West 19th St. About $21,749. L. Mongerg, City Engr.

Ill., Cicero—City making plans paving various streets, asphaltic concrete. L. Mongerg, City Engr.

Ill., East St. Louis—Council soon receives bids improving portion Missouri Ave. About $60,000. Noted Aug. 24.

Ill., La Salle—City plans to pave Grove Cœur St. and portions 11th St. and Bucklin Ave. About $55,466. E. Byrne, City Engr.

Ill., Mt. Carmel—Wabash County making surveys State Aid road. Superv. appropriated $23,000 toward cost. E. F. Motsinger Mt. Carmel, County Supt. Highways.

Ill., Peoria—Peoria County Superv. plans to issue $1,700,000 bonds to build roads. Address County Clk., Peoria.

Ill., Streator—City soon lets contract paving portion Bronson Ave., brick. F. Rentz, City Engr. Noted July 6.

Ill., Virginia—Cass County Comrs. receiving bids Apr. 1 improving various roads. About $13,780. Address County Clk., Virginia.

Ill., Woodstock—Bd. Local Impvts. plans to let contract in March paving Calhoun, South, Lawrence and other streets, concrete, also 20,000 lin.ft. curbing. About $50,000. H. M. Price, 8 South Dearborn St., Chicago Engr. Noted Oct. 26.

Wis., Appleton—Outagamie County plans concrete highway from Appleton to New London. Cost of project to be borne by villages of Greenville and Hortonville through which road will pass and city of Appleton. Address County Clk., Appleton. Noted Apr. 27.

Wis., Cedar Grove—Village plans paving J. Donahue, York Bldg., Sheboygan, Engr.

Wis., Elkhart Lake—City making plans paving Rhine St. About $4,000. J. Donahue, York Bldg., Sheboygan, Engr.

Wis., Richland Center—Council plans voting $24,000 bonds to pave streets in spring.

Wis., Waukesha—City plans to curb and pave Elizabeth. Fulton, Colton and Woodward St. W. Powrie City Engr.

Ia., Ackley—City plans to pave main streets.

Ia., Des Moines—Bd. Superv. Polk County plan improving Panora Rd. Address County Clk., Des Moines.

Ia., Des Moines—Polk County plans election to vote on $400,000 bonds to build complete system highways. J. W. Budd, Des Moines, County Engr.

Ia., Eldora—City plans to pave about 33 blocks and 4 alleys. W. H. Steiner, City Engr.

Ia., Griswold—City plans to pave Main St.

Ia., Marengo—City plans paving portion Marengo Ave. and West Washington St.

Ia., Washington—City plans to repave 29 blocks, brick and tarvia. S. J. Kellogg, Clk.

Minn., Caledonia—Houston County to spend $8,000 and state $4,000 for Booze Route. E. N. Newhouse, Caledonia, County Audr.

Minn., Fairmont—Martin County plans 30 mi. roads. About $30,000. Address County Clk., Fairmont.

Minn., Grand Rapids—Itasca County plans 8-mi. road from Deer River to Smith. Address County Clk., Grand Rapids.

Minn., Madison—Lac Qui Parle County made preliminary plans road work in 1917. About $41,225. A. G. Shogren, Madison, County Audr.

Minn., Mankato—Blue Earth County plans to spend $100,000 road work next year. P. M. Allison, Mankato, County Engr.

Minn., Mankato—City plans to grade and gravel portions Lewis, May, Mulberry and 7 other streets. H. F. Blomquist, City Engr.

Minn., Wadena—Wadena County plans to build highways with $25,000 Federal Aid. E. Boss. Wadena, County Audr.

Minn., Warren—Marshall County has about $35,000 available improving roads next year. O. Lind, Warren, County Engr.

Kan., Pittsburgh—Council passed resolution paving portions Cleveland and Indburg Ave. L. E. Curfman, City Engr.

Neb., Alliance—Box Butte County Comrs. plans paving portion Box Butte Ave. and 3d St. Address County Clk., Alliance.

Neb., Nebraska City—City making plans paving number streets. C. A. Shannon, City Engr. Noted June 8.

N. D., Bismarck—City plans road to river. Address Commercial Club.

Mo., Ironton—Iron County plans election to vote on $170,000 bonds to build roads. Address County Clk., Ironton.

Mo., Kansas City—City plans to widen Baltimore Ave. C. Hill, City Engr.

Ark., Waldron—State Highway Comn., Little Rock, revised plans 39 mi. gravel road from Sebastian County line to Waldron. About $140,000. Address Clk. Scott County, Waldron.

Tex., Beaumont—Jefferson County plans repairing Beaumont-China Rd. Address County Clk., Beaumont.

Tex., Conroe—State Attorney General's Dept. approved issue of $25,000 bonds to build roads in Road Dist. No. 4, Montgomery County. Address County Clk., Conroe.

Tex., Dallas—City Comn. authorized paving portion Madison Ave., Oak Cliff, and Junius St., East Dallas. H. Moseley, City Engr.

Tex., Dallas—City plans paving portion Washington Ave., asphaltic concrete. H. Moseley, City Engr.

Tex,. Dallas—Park Bd. plans extending Turtle Creek Parkway. About $10,000. H. Moseley, City Engr.

Tex., Denton—Denton County will vote Feb. 3 on $150.000 bonds to build roads. Address County Clk., Denton. Noted Sept. 7.

Tex., Memphis—City votes in April on $20,000 bonds to pave streets.

Tex., San Angelo—City election Jan. 7 to vote on $25,000 bonds to repave number streets. H. M. Garden, City Engr. Noted Dec. 21.

Tex., Waxahachie—Council passed resolution paving 5 mi. streets. About $160,000.

Okla., Bartlesville—Washington County defeated $600,000 bonds to improve roads. Address County Clk., Bartlesville. Noted Nov. 30.

Okla., Sapulpa—City receiving bids paving on Hobson, Mission, South Independence and West Lee St. R. N. Whittlesey, City Engr. Noted Nov. 23.

Okla., Stillwater—Payne County Comrs. plans road work. Address County Clk., Stillwater.

Wash., Seattle—King County receiving bids in January, G. E. Sylvester Rd. Address County Clk., Seattle.

Ore., Portland—City plans to improve Montana, Minnesota, Missouri and Michigan Ave. and Church, Jessup, Jarrett and Simpson St. P. H. Dater, City Engr.

Ore., The Dalles—Waco County Court, Advisory Bd. made plans, soon receives bids road work next year. L. B. Fox, The Dalles, Clk. Noted Dec. 21.

Calif., Albany—City voted $20 000 bonds to pave San Pablo Ave.

Calif., Claremont—City Trustees receiving bids in January paving portion 1st St.

Calif., Los Angeles—Union Oil Co., California Union Oil Bld. soon receives bids paving portion of yards at 6th and Mateo St.

Bids In and Contracts Awarded

Mass., Methuen—Massachusetts Highway Comn., Boston, let contract section highway in Methuen to J. WAGONBOTH, Lawrence. Noted Nov. 30.

Ct., Stamford—City let contract 25,282 lin.ft. macadam highway on Long Ridge Rd. to F. VALERIO.

N. Y., Schenectady—Bd. Contract rejected bids paving Smith St. and 3d Ave.

N. J., Pennsgrove—City let contract paving portion Main St. to J. E. BURKE & CO.

Md., Baltimore—State Rds. Comn. 601 Garrett Bldg., let contracts as follows: Contract No. 10, Wicomico County, 1 section road from Powellville, concrete, about 3 mi. to Willards to BURGESS & DORRIE, Scottsville, Va., $40,000; Contract No. 15, Worcester County, 1 section road from Snow Hill about 2½ mi. toward Girdletree to MAJOR CONSTRUCTION CO., Pocomoke, Md., $40,000. Noted Nov. 16.

N. C., Salisbury—City let contract paving streets in Dist. No. 2 to CHARLOTTE PAVING CO., Charlotte. Noted Nov. 16.

Fla., Ft. Myers—Lee County, Rd. and Bridge Dist. No. 3 let contract to clear and grade road from Marco to Dade County line to J. B. McCRARY CO., Atlanta, Ga., $11,800.

Fla., St. Cloud—City let contract 11,000 sq.yd. paving to GEORGIA ENGINEERING CO., Augusta, Ga., $1.29½ per sq.yd. Noted Oct. 19.

Ala., Luverne—(Official)—Crenshaw County let contract improving 2 mi. Patsburg and Luverne Rd. and 3 mi. Honoraville Rd. to L. C. RAWLINSON, Luverne, 23c. per yd. Noted Nov. 23.

Miss., Canton—Madison County let contract 40 mi. earth roads and concrete culverts and pine bridge to OWENS CONSTRUCTION CO., Madison. Noted Nov. 30.

La., Lake Charles—(Official)—City let contract paving Miller Ave., Mill, Pine Moss and other streets, vibrolithic to DE JENSEY & MAFF, Lake Charles, $38,981. Noted Nov. 30.

Ky., Owensboro—(Official)—Davies County let contract Letchfield Rd. to MONTGOMERY PERKINS CO., Owensboro. Noted Dec. 7.

Ky., Owensboro—(Official)—Davies County Fiscal Court let contract St. Joseph, Hawesville and Rockport Rd. to MONTGOMERY PERMINS CO., Owensboro. Noted Dec. 7.

Ky., Williamsburg—Comrs. Whitley County let contract 17 mi. road to MASON CONSTRUCTION CO., Emanuel, $36,510.

Ohio, Ashtabula—City let contract paving. draining and curbing portion Main St. to T. F. FITZGERALD. About $14 180.

Ohio, Euclid—Village let contract improving North St. to CLEVELAND TRINIDAD PAVING CO., 420 Lakeside Ave., Cleveland. Noted Nov. 9.

Ohio, Fremont—City let contract Medina Rd. to MODERN CONSTRUCTION CO. About $99,000.

Ohio, Medina—Medina County Comrs. let contract 1 mi. concrete on Barberton-Greenwich Rd. and 1,000-ft. concrete on North Homer-Spencer Rd. to CRAWFORD & LITTLE, Elyria.

Ohio, Norwalk—Huron County let contract 5 mi. New Medina Highway through Norwalk, Townsend and Hartland Townships to MODERN CONSTRUCTION CO., Fremont, about $98,808.

Ohio, Tiffin—City received low bid paving Washington St., asphalt, from Barber Asphalt Paving Co., $1.30 sq.yd.

Ohio, Youngstown—City let contract paving portion Alice St., brick, to MULLEN & QUINN, 436 East Federal St., Youngstown. $294,905. Noted Aug. 26.

Ohio, Youngstown—City let contract paving portion Oak Hill Ave. to S. H. DE GROODT, 127 East Woodland Ave., Youngstown, $6,133. Noted Nov. 30.

Ind., English—Crawford County Comrs. let contract road Sterling Township to MERRYMAN & FERGUSON Milltown. Noted Nov. 30.

Ind., Indianapolis—Bd. Pub. Wks. let contract improving Terrace Ave. to MARION COUNTY CONSTRUCTION CO., 1600 South West St., $2.70 per ft.

Ind., Kokomo—Howard County let contract road Howard Township to J. W. WATSON & CO., Kokomo, about $11,771.

Ind., New Albany—Floyd County Comrs. received low bids improving (a) Graysbrook Rd., (b) Ford Rd., from W. F. Woodruff, (a) $7,110, (b) $8,360; S. T. Gaines, (a) $7 050, (b) $8.500; J. D. Graninger, (a) $6,811, (b) $8,160. Noted Nov. 30.

Ind., Rockville—Park County Comrs. let contract improving roads in Adams and Raccoon Townships to W. P. HANNON, Rockville, D. BRITTON, Judson, Ind. L. W. DEVOTO, Rockville, W. PLATTEN & SON, Montezuma. Noted Nov. 30.

Ill., Franklin Grove—City let contract paving to PRONGER & FLETCHER, Blue Island, $8,170.

Wis., New London—City paving portion Wyoming and North Water St. by day labor. Noted Dec. 7.

Minn., Terry—City let contract graveling road from Tracy to connect with Black and Yellow Trail to A. JENSEN.

Streets and Roads (Continued)

Kan., Beloit—City let contract 65,000 sq.yd. paving to McGUIRE & STANTON CONSTRUCTION CO., Leavenworth, $150,000. Noted Dec. 21.

Kan., Larned—City let contract 11 blocks brick paving to McCOY & TAYLOR. Noted Nov. 30.

S. D., Sioux Falls—Minnehaha County Comrs. let contract graveling 11 mi. 12th St. road through Wall Lake and Wellington Townships to E. GAGE & CO.

Tex., Brownwood—Brown County let contract roads to N. A. DAWSON, San Antonio. About $100,000. Noted Dec. 14.

Tex., Mt. Pleasant—City let contract improving several streets to GENERAL CONSTRUCTION CO., Ft. Worth, $24 574. Noted Sept. 7.

Okla., Drumright—City let contract paving streets to MUNICIPAL ENGINEERING AND CONSTRUCTION CO. Noted Nov. 16.

Okla., Oklahoma—City let contract paving portions Broadway and Walnut Ave. to PARKER-WASHINGTON CO., 23d and Penn St., Kansas City, Mo. About $20,000.

Idaho, Lewiston—City let contract 5 mi. Lake Waha Highway to G. H. KESTER, Lewiston, $5,000.

Calif., Berkeley—Council let contract paving portion University Ave. to COVAULT CO., Stockton, $62,205.

Calif., Berkeley—Council let contract paving portion San Pable Ave. to CLARK & HENRY, Stockton, $58,000. Noted Aug. 31.

Calif., Los Angeles—City let contract improving portion Allesandro St. to B. CRITES, 709 Higgins Blvd., $5,319.

Calif., Los Angeles—City let contract improving portion Echo Park Ave. to T. E. SHAFER, 220 South Bonnie Brae St., $4,497.

Calif., Los Angeles—City let contract improving portion Noe St. to D. L. BIENFIELD, Phelan Blvd. $8,914.

Calif., Los Angeles—City received low bid pavign portion 48th St. from California-Arizona Construction Co., grading, 3.5c. sq.ft.; 15.4c. sq.ft. warrenite paving; 35c. lin.ft. cement curb; 12c. sq.ft. cement sidewalk; 17.5c. sq.ft. concrete gutter; 40c. sq.ft. granite block gutter; $2,635 culverts. Noted Nov. 23.

Calif., Los Angeles—T. E. Shafer, 1327 Waterloo St., submitted low bid improving Florence Ave. Rd., Impvt. Dist. No. 120, $6,849.

Calif., San Francisco—City let contract paving portion Clayton St. to FEDERAL CONSTRUCTION CO., Sharon Bldg., San Francisco about $16,946. Noted Dec. 14.

Calif., San Francisco—Bd. Pub. Wks. let contract improving portion Evans Ave. to K. EHRHART, 660 Market St., $52,593.

Calif., Visalia—City let contract improving portion East and School St. to CLARK & HENRY CONSTRUCTION CO., San Francisco, 12.9c. lin.ft. topeka asphalt on concrete base; 30c. lin.ft. concrete curb; 18c. lin.ft. gutter.

Calif., Visalia—City let contract improving portion East Main St. to CLARK & HENRY CONSTRUCTION CO., San Francisco, 11.4c. sq.ft. topeka asphalt paving on concrete base; 30c. ft. curb; 18c. concrete cutter $1 lin.ft. corrugated iron iron culverts. Noted Oct. 15.

Ont., Toronto—Bd. Pub. Wks. let contract asphalt paving on Hastings St. to R. H. HARRIS. About $7,627. Noted June 1.

INDUSTRIAL WORKS

Proposed Work

Mass., Boston—A. O. Norton, Inc.. 286 Congress St., Boston, making plans 1-story, 85x335-ft. machine shop and office building at Brookline Ave. and Smyrna St. About $75,000. J. T. Ball, 39 Rosedale St., Dorchester, Arch.

Mass., Chicopee—Metals Production Equipment Co., plans additions. About $16,000.

Mass., Lawrence—Lawrence Development Corp. plans 4-story, 50x100-ft. textile mill. About $100,000. Ashton & Huntress, 477 Essex St., Arch.

R. I., Woonsocket—Falls Yarn Mills plans 1-story, 50x150-ft. addition to mill. About $10,000. W. F. Fontaine, 285 Main St., Arch.

Ct., Hartford—Underwood Computing Machine Co., Chamber of Commerce Bldg., plans new factory on Hawthorne St., 4-stories. Bids soon. A. N. Lattin of Underwood Typewriter Co. made plans.

Ct., Springfield—Buchholz Sign Co. purchased land on Talcott St. and will build factory.

Ct., Waterbury—New Haven Dairy Co. making plans 3-story, 67x73-ft. dairy building. F. E. Brown, 47 Orange St., Arch. C. G. Morris 147 Temple St., New Haven, Pres.

N. Y., Newburgh—Chamber of Commerce made plans 1- and 2-story, 50x150-ft. factory. About $50,000. J. S. Ladow. 348 Church St., Poughkeepsie, Arch.

N. Y., New York—(Brooklyn)—(Official)—A. B. Brown Co., 514 West 46th St., Manhattan, soon receives bids 2-story. 50x98-ft brick factory, Lexington and Marcy Ave. About $12,500. T. J. Erb, Arch.

N. Y., New York—(Brooklyn)—G. Gruber, 14 Moore St., made plans 2-story, 49x100-ft. brick garage and office building, De Kalb and Tompkins Ave. About $20,000. M. Zipkes & H. Wolfe 405 Lexington Ave., Manhattan, Archs.

N. Y., New York—(Brooklyn)—J. Hemondinger & Sons, 42 Russell St., made plans 2-story, 96x100-ft. factory. About $12 000. H. Dorf, 614 Kosciusko St., Brooklyn, Arch.

N. Y., New York—(Manhattan)—C. A. Bruhns, 152 Amsterdam Ave., making plans 4-story, 50x100-ft. brick and steel garage, 225-27 West 66th St. About $35,000. L. A. Sheinart, 194 Bowery, Arch.

N. Y., New York—(Manhattan)—(Official)—Mills Hotel Trust, 15 Broadway receiving bids 5-story, 21x98-ft. warehouse at 153 West 36th St. About $50,000. F. H. Whittemore, Arch.

N. Y., New York—(Manhattan)—(Official)—M. G. Taddonio, 30 East 42d St., soon receives bids 2-story, 50x100-ft. brick warehouse at 405 East 109th St. About $27,000. J. P Whisdeman, 30 East 42d St., Arch.

N. Y., New York—(Manhattan)—Washington Heights Ice Corp. making plans plant at 168th St. and Jumel Pl. Star Engineering Co, 90 West St., Arch.

N. Y., New York—(Queens)—Pierce Motor Realty Corp. made plans 1-story, 100x150-ft. addition. Griffin & Wynkoop, 30 Church St., Manhattan, Arch. Noted Mar. 9.

N. Y., New York—(Queens)—(Official)—Simplex Automobile Co., 60 Broadway, Manhattan, receiving bids 1-story, 100x200-ft. addition to garage, 12th St., Long Island City. About $25,000. F. Y. Parsons, 1133 Broadway, Manhattan, Arch.

N. Y., Solvay—Pass & Seymour, Inc., made plans 3-story, 60x200-ft. factory. Russell & King, 602 Snow Bldg., Syracuse, Arch. Noted July 27.

N. Y., Syracuse—Onondaga Pottery Co., 1858 West Fayette St., plans 1- and 4-story, 88x208-ft. warehouse consisting of 3 buildings. Russell & King, 602 Snow Bldg. Syracuse, Arch.

N. J., Atlantic City—C. Parker made plans 2-story factory. About $10,000. F. E. Hahn, 1112 Chestnut St., Phila., Pa., Arch.

N. J. Harrison—Reuther Bros. plan 1-story, brick foundry on Manor Ave. H. L. Scudder, Jr., Essex Bldg., Newark, Arch.

N. J., Kearny—(Arlington post office)—North American Copper Co., 52 Vanderbilt Ave., New York, N. Y., having plans made plant on Hackensack River. Noted June 8.

N. J., Newark—New York & New Jersey Express Co., care of S. B. Signor, 309 Broadway, New York, making plans warehouse and cold-storage building. A. F. Guilbert, 80 Maiden Lane, New York, Arch.

N. J., Oxford—Oxford Dye Works, Belvidere Ave., made plans 1-story brick dye house, $10,000. C. W. Ellenberger, Hampton, Arch.

N. J., Passaic—New Jersey Engineering & Supply Co., having plans made 4-story, 56x120 ft. brick and steel warehouse at 177-181 Main Ave. M. R. Strong, 7 Wall St., New York, N. Y., Arch.

Pa., Macungie—Macungie Brass Mfg. Co. plans enlarging its plant.

Del., Wilmington—P. Hutchison, 705 Market St., making plans, 4-story, 110x200-ft. storage and warehouse. About $200,000. J. D. Thompson, Ford Bldg., Arch.

Md., Curtis Bay—(Baltimore Post Office)—Curtis Bay Distilling Co., plans concrete grain elevator, $1,000,000.

Md., Sollers—Aluminum Ore Co., East St. Louis, Ill., all stock owned by Aluminum Co. of America, Pittsburgh, plans plant to manufacture anhydrate of aluminum from bauxite ore. About $700,000.

Va., Lynchburg—Sanitary Dairy plans 132x188-ft. brick and concrete dairy. About $15,000. McLaughlin & Johnson, Arch.

Va., Staunton—Home Building and Loan Association plans garage at Baldwin and Central Ave. to be occupied by Central Garage. About $25 000.

Va., Suffolk—Norfolk & Western Ry. plans brick and concrete warehouse at freight station. J. E. Crawford, Roanoke, Ch. Engr.

W. Va., Kanawha—(Charleston Post Office)—American Bottle Co. plans $2,000,000 plant at Kanawha.

N. C., Charlotte—Neverdarn Hosiery Mills, recently incorporated, plans 1-story, 50x200-ft. brick mill. About $75 000. C. O. Custer, 201 West 1st St., interested.

N. C., Gastonia—Ranlo Manufacturing Co. plan mill. About $500,000. C. M. Dunn, interested.

N. C., Wilmington—Carolina Packing Co. making plans 88x146-ft. plant, rein.-con. and brick. About $90,000. C. L. Brooks Engineering Co., Moultrie, Ga., Engr. Noted Nov. 16.

N. C., Winston Salem—Liberty Storage Co., recently organized with $250,000 capital stock, acquired plant and grounds Salem Iron Works and will build five 3-story buildings. C. D. Cromer, Secy.-Treas.

S. C., Charleston—Valk & Murdock Iron Works purchased land and will erect shipyards, foundry, machine shop, etc.

Ga., Savannah—Savannah Abattoir and Packing Co., recently incorporated with $100,000 capital stock, purchased 12-acre site and will build plant. S. Friedman and A. Mandel, interested.

Fla., Plant City—Kilgore Seed Co. plans 2-story brick warehouse and office building.

Miss., Meridian—C. F. Massey Co., 122 South Michigan Ave., Chicago, purchased site at junction Alabama & Vicksburg and Meridian & Memphis R.R. rein. cement plant for building bridges, pilings, oil and signal houses, etc. About $45,000.

La., Harvey—Penick & Ford, New Orleans, plans cold-storage warehouse at Harvey. About $75,000.

Ky., Lexington—C. Knight. Louisville, and associates, plan commercial fertilizer plant.

Ohio, Alliance—Buckeye Twist Drill Co. plans to increase its capital stock from $150,000 to $1,000,000 and will enlarge plant.

Ohio, Alliance—Transue Williams Steel Forging Co. plans addition to forge shop. G. S. Rider Co., Century Bldg., Cleveland, Arch.

Ohio, Berea—Fox Novelty Co. plans to rebuild factory. About $25,000.

Ohic, Canton—Canton Sheet Steel Co. plans to enlarge plant. About $500,000. C. A. Ervine, Gen. Mgr.

Ohio, Canton—Stark Rolling Mill Co. making plans 7 mills.

Ohio, Canton—Zehner Metal Sash and Door Co. will rebuild plant. About $100 000.

Ohio, Cincinnati—Corcoran Manufacturing Co., 4634 Spring Grove, plans factory, Ammen Ave. and Baltimore & Ohio Southwestern R.R. About $125,000.

Ohio, Cincinnati—A. M. Lewin Lumber Co., Dana Ave. plans addition. About $40,000.

Ohio, Cincinnati—Longview Hospital for Insane soon receives bids 2-story, [illegible]0x80-ft. abattoir. About $30,000. Elzner & Anderson, 135 Ingalls Bldg., Arch.

Ohio, Cleveland—Akron Sewer Pipe Co., Akron, purchased site on New York Central right-of-way distributing station.

Ohio, Cleveland—American Box Co.. 1932 West 3d St., plans plant. About $50,000.

Ohio, Cleveland—Domestic Wet Wash Laundry Co., 7189 Lorain Ave., made plans 1-story, 70x135, laundry. $15,000. W. H. Smith, Union Bldg., Arch. Noted Dec. 21.

Ohio, Cleveland—Harris Auto Press Co., plans factory on Belt Line and East 5th St., New Burgh Heights. About $10,000.

Ohio, Cleveland—Landesman Hirscheimer Co., 1323 West 9th St., making plans, receives bids in spring, 4- or 5-story factory on Superior Ave., N.E. About $300,000. B. Lowenstein, 1327 West 9th St., Pres. Noted Oct. 26.

Ohio, Cleveland—Michigan Smelter Co., Detroit. Mich., purchased site on Jennings Rd. factory. About $25,000. H. E. Level, 707 Electric Bldg., Local Rep.

Ohio, Cleveland—G. H. Miller, formerly of Champion Stove Co., plans plant to manufacture products for general jobbing foundry business, State Rd. About $50,000.

Ohio, Cleveland—National Malleable Casting Co., 7706 Platt Ave., made tentative plans 1-story brick and steel foundry, Quincy Ave. and Woodhill Rd.

Ohio, Cleveland—Pee-Chee Cleaner Manufacturing Co., 3726 Central Ave., purchased land on St. Clair Ave., and will build factory.

Ohio, Cleveland—Steel Car Co. recently incorporated, purchased site plant. About $500 000. P. H. Joyce, Pres.

Ohio, Cleveland—T. M. Swetland, 904 Park Bldg., leased site at Payne Ave. and East 17th St. to build manufacturing or commercial building. About $35,000.

Ohio, Cleveland—Union Salt Co., Addison Rd. and New York Central Ry., making preliminary plans 1st unit of group of buildings. W. J. Carter, Engineers Illuminating Bldg., Engr.

Ohio, Columbus—F. E. Powell, 1392 East Broad St., receiving bids Jan. 1, 2-story, 25x87-ft. salesroom, garage and store building. About $50,000. M. Peterman, Gobey Bldg., Arch.

Ohio, Hamilton—Columbia Machine Tool Co., recently incorporated with $50,000 capital stock, plans plant. F. E. Goldsmith, F. B. Ming and A. Waldburg, of Suramic Machine Co. interested.

Ohio, Marietta—H. Stevenson German Bank Bldg., plans 3-story plant. About $20,000. E. J. Weed, German Bank Bldg., Arch.

Ohio, Midland—Crucible Steel Co., of Midland, plans new plant to manufacture castings.

Ohio, Springfield—U. S. Kelly Co. plans fireproof factory.

Ohio, Toledo—Berry Packing Co., recently organized, plans plant. About $40,000. D. A. Berry, interested.

Ohio, Toledo—Cincinnati, Hamilton & Dayton Ry. and Baltimore & Ohio Railroad Co. plan refrigerating plant in Toledo. About $250,000. F. L. Stuart Baltimore, Consult. Engr. former railway and R. N. Begien, Baltimore, Ch Engr. latter.

Ohio, Toronto—American Sewer Pipe Co. plans plant. About $55,000.

Ohio, Wilmington—Clinton County Lumber Co., Washington, C. H.. made plans 2-story storage building.

Ind., Evansville—Graham Glass Works plans additions to its plant. M. J. Owens, Gen. Mgr.

Mich., Detroit—Buhl Sons & Co., Wight and Adair St., made plans warehouse, main building

Industrial Works (Continued)

4-story, 30x402-ft., crane building 2-story, 80x402-ft., warehouse 2-story, 65x402-ft., dock 480 ft. long. J. Scott & Co., 2326 Dime Bank Bldg., Arch. Noted Nov. 30.

Mich., Detroit—Parisian Laundry Co., making plans laundry and power plant. Taylor & Waltz, 1144 Kresge Bldg., Arch.

Mich., Ecorse—International Tube and Sheet Mills purchased land and will build factory. H. K. Flagler, Pres.

Mich., Rochester—Detroit United Railway Co., purchased land, plans car house; also enlarging freight and express facilities. H. Bullen, Interurban Bldg., Detroit, Gen. Supt.

Ill., Chicago—Chapell Ice Cream Co., 2500 Fullerton St., making plans 1- and 2-story plant. About $100,000. F. R. Shock Arch.

Ill., Chicago—Chicago Malleable Castings Co., 1219-25 West 120th St., plans 2-story brick factory. About $15,000. A. C. Coffin, Arch.

Ill., Chicago—Clemetson Co., 2607 Flournoy St., plans factory, West Division St. and Himan Ave., main building to be 3-story, 75x276-ft. W. Tomlinson, 64 East Van Buren St., Arch.

Ill., Loda—Risser & Rollins plans rebuilding grain elevator recently destroyed by fire.

Wis., Milwaukee—Milwaukee Journal Co., 182 4th St., made plans 3-story, 51x150-ft. addition. About $50,000. Klug & Smith. Mack Bldg., Engr. F. Howend, Arch. and Engr. Noted Dec. 21.

Wis., Milwaukee—H. J. Rock, 485 11th Ave., soon lets contract auto truck factory and office building. About $50,000.

Wis., Milwaukee—Standard Racine Rubber Co. making plans garage, tire repair and store building. About $90,000. O. C. Uehling, 509 First National Bank Bldg., Engr.

Ia., Council Bluffs—Armour & Co., 1301 Jones St., Omaha, Neb., plans being made, grain elevator.

Ia., Council Bluffs—Updike Grain Co., 240 Omaha National Bank Bldg., Omaha, Neb.. plans being made, grain elevator, cap. 1,500,000 bu.

Ia., Farragut—Farmers' Elevator Assoc. plans. About $10,000. T. Spear, Pres.

Ia., Sioux City—Arthur & Co., Omaha, made plans 5-story, 96x128-ft., rein.-con. sheep killing and oleo plant. About $200 000.

Minn., St. Paul—Federal Grain and Elevator Co. made plans elevator. About $150,000. R. J. Johnstone, Mgr. Noted Aug. 31.

Minn., St. Paul—Seeger Refrigerator Co., Arcade and Wells St., plans 4-story, 60x120-ft., rein.-con. warehouse. J. A. Seeger, Pres.

Neb., Omaha—Kirschbraun & Sons, 1209 Howard St., plans 4-sory creamery and cold-storage plant. About $150,000.

Neb., Paxton—Farmers' Elevator Co. making plans grain elevator.

S. D., Sioux Falls—J. Morrell & Co., Ltd., plans 2-story brick and stone packing plant, east side Weber Ave. About $25,000.

Mont., Conrad—Power-Wilson Co. will rebuild plant. About $80,000.

Mo., Kansas City—Brass and Metal Manufacturing Co. receiving bids Jan. 1 additions.

Tex., Butler—Butler Bros. plans 8-story addition. A. M. Mason, Local Mgr.

Tex., Ft. Worth—Binyon-O'Keefe Storage Co. plans 6-story, rein.-con. storage warehouse. About $50,000. Sanguinet & Staats, Arch.

Tex., Galveston—Pierce Oil Corp., 420 Olive St., St. Louis, Mo., plans plant. About $100,000.

Tex., San Antonio—Breeden-Runge Co., Cuero, plans warehouse in San Antonio. About $30,000.

Tex., Vidor—Schneider Bros., Pearl River, La., plans brick plant at Vidor.

Okla., Oklahoma — Letts Box Veneer and Cooperage Co., 1800 West Main St., plans 4-story, 25x130-ft. brick addition.

Utah, Murray—Miller-Cahoon Auto Co. plans 2-story building. About $10,000.

Wash., Seattle—A. J. Capron, Ainsworth Bldg., Portland, Ore., representative of Goheen Manufacturing Co., Canton, Ohio, announced that company purchased site on South Waterway paint factory. About $250,000.

Wash., Tacoma—Todd Shipbuilding and Dry Dock Corp. purchased site 100 acres on tidelands plant and dock.

Ore., Portland—Goheen Manufacturing Co., Canton, Ohio, plans paint factory to consist 4 buildings. About $225,000.

Calif., Huntington Park—Axelson Machine Co., 1406 North San Fernando Rd., Los Angeles, soon lets contract plant on 10-acre site for manufacturing pumps and lathes.

Calif., Los Angeles—Baker Iron Works, North Broadway and Castelar St., plans 100x300-ft. steel and corrugated iron addition. About $65,000.

Calif., Los Angeles—Eisenhuth Motor Co. applied to Harbor Comn. lease on site of 70 acres at Los Angeles Harbor to build manufacturing plant. About $10 000,000. J. W. Eisenhuth, Angelus Hotel, Pres.

Calif., San Francisco—H. N. Cook Belting Co., Fremont and Howard St., made preliminary plans 1-story factory. Ward & Blohme, Alaska Commercial Bldg., Arch.

Que., Quebec—Harbor Comn. granted permit warehouse. About $585,000.

Que., St. Hyacinthe—L. O. Grothe, Ltd., 556 St. Lawrence Blvd., Montreal, soon receives bids factory addition. About $25 000.

Ont., Arnprior—J. Munro, Pembroke, plans factory at Arnprior. About $10,000.

Ont., Bracebridge—Beacon Match Co. plans plant. About $45,000.

Ont., Elmira—Consolidated Rubber Co., Kitchener, making plans factory at Elmira. About $50,000.

Ont., Hamilton—Canadian Desmond Stephen Manufacturing Co., 44 Market St., plans new factory. About $50,000.

Ont., Lindsay—Flavelles, Ltd., making plans rebuilding cold-storage and produce plant. About $75,000. M. Cooper Co., New York, Arch. Noted Dec. 7.

Ont., Owen Sound—Keenan Woodenware Co. plans 2 factory buildings. About $50,000.

Ont., Toronto—T. Daville granted permit factory. About $11,800.

Man., St. Boniface—W. Gallaway Co., Waterloo, Ia., plans plant at St. Boniface in spring. J. B. Payne, Winnipeg, Local Mgr.

Man., Winnipeg—R. A. Lister & Co., Galt Bldg., making plans factory. About $50,000. Fingland & Hanford, Enderton Bldg., Arch.

Sask., North Battleford—Imperial Oil Co., Sarnia, Ont., plans plant. About $20,000. J. McTavish, 104 4th St., N., Saskatoon, Local Mgr.

Sask., Saskatoon—Adams Bros. Harness Manufacturing Co., Ltd., McDermott Ave. E., Winnipeg, Man., plans factory in spring. About $125,000.

B. C., Vancouver—Canadian Pacific Ry. plans to spend between $10,000,000 and $15,000,000 grain elevators and additional terminal facilities at Vancouver. W. E. Woodhouse, Montreal, Ch. Engr.

B. C., Vancouver—Dominion Glazed Pipe Co., Front St., plans new plant to manufacture sewer pipe. About $50 000.

Bids In and Contracts Awarded

Me., Sanford—Springvale Shoe Works let contract 4-story, 40x45-ft. addition to J. CLARK & SONS, Kennebunk. About $10,000.

Mass., Adams—Renfrew Manufacturing Co. let contract addition to FLYNT BUILDING AND CONSTRUCTION CO., Palmer.

Mass., Boston—(Jamaica Plain)—Sturtevant Aeroplane Co., Williams St., let contract 1-story, 86x128-ft. brick aëroplane shed to WHITCOMB & KAVANAUGH CO., 6 Beacon St., Boston. About $14,000.

Mass., Brockton—W. W. Cross & Co., Inc., let contract addition factory to G. H. HOWARD & SONS CO., 633 Warren Ave. About $10,000.

Mass., Gloucester—Ipswich Mills let contract 4-story factory to FISKE-CARTER CONSTRUCTION CO., 11 Foster St., Worcester. Noted Nov. 30.

Mass., Sharon—Bay State Film Co., 70 State St., let contract 2-story, 37,200-ft. 2 ells, 40x40-ft. to McDONALD & KIVELL, 153 Milk St., Boston.

R. I., Central Falls—Glenlyon Dye Wks. let contract 2-story, 50x60-ft. storehouse to A. F. SMILEY, Oak Hall Bldg., Pawtucket, $10,000.

R. I., Hillsgrove—Rhode Island Malleable Iron Works, Providence. let contract addition at Hillsgrove to C. E. CARLSON, 66 Congress Ave. Noted Nov. 30.

R. I., Newport—Hattub Bros., Bridge St., let contract 1-story, 50x100-ft., 3-story, 50x70-ft. ice and storage building to R. LYNCH, 67 Mill St., Newport. About $20,000.

R. I., Woonsocket—Woonsocket Rubber Co. let contract 3-story factory to FISKE-CARTER CONSTRUCTION CO. 11 Foster St., Worcester.

Ct., Hartford—Standard Mattress Co. let contract 3-story, brick factory on North St. to C. SEIGEL.

Ct., Meriden—Waterbury Farrell Foundry and Machine Co., Bank St. let contract addition to H. WALES LINES CO., Meriden.

Ct., New Britain—Landers, Frary & Clark let contract 3-story, 73x238-ft. addition, Elm St., to ABERTHAW CONSTRUCTION CO., Boston. Noted Dec. 14.

Ct., New Haven—Semon Ice Cream Corp. let contract 2-story, 42x42x45-ft. addition to D. H. CLARK CO., 166 Brewery St. About $50,000.

N. Y., Lockport—Harrison Manufacturing Co., let contract 2-story factory at Elm and Walnut St. to AMERICAN CONCRETE STEEL CO., 27 Clinton St., Newark, N. J., $250,000.

N. Y., New York—(Brooklyn)—Cluck Bros., Maujer and Lorimer St., let contract 3-story, 25x100-ft. warehouse to I. E. JERSEY, 62 Williams St., New York. About $15,000. Noted Nov. 16.

N. Y., New York—(Manhattan)—Appleby Estate, 135 Broadway, let contract rein.-con. garage at 12th Ave. and 57th St. to F. T. LEY & CO., 52 Vanderbilt Ave., $80,000. Noted Jan. 27.

N. Y., New York—(Manhattan)—New York Ice Co. of Maine, 80 Madison Ave., let contract piling brick and steel plant at Burling Slip and Pearl St. to RAYMOND CONCRETE PILE CO., 90 West St.

N. Y., Phelps—Bennett Corp., care of W. J. Bennett, Sietz Bldg., Syracuse, let contract cement plant to WALSH CONSTRUCTION CO. Davenport, Ia. About $1,250,000. Noted Dec. 7.

N. Y., Rochester—Bartholomew Brewing Co., 555 St. Pauls St., Rochester, let contract 3-story, 62x68-ft. storage building to H. STALLMAN & SONS, 58 Builders' Exchange. About $38,000.

N. Y., Rochester—Rochester Tallow Co., care of A. Shade, Rochester, let contract 2-story, 41x60-ft. cooler building to A. FREDERICHS & SONS CO., Lake Ave., Rochester. About $15,000. Noted Oct. 26.

N. J., Elizabeth—National Metal Coating and Lithographing Co. let contract addition factory to V. C. HARDING, 594 Monroe Ave.

N. J., Jersey City—O. Havez, 246 Cornelison Ave., let contract 2-story mill on Cator Ave. to J. GORNITZKY, 312 5th St., $10,000.

N. J., Keasbey—German-American Stoneware Wks. let contract 2-story, 60x60-ft. addition to TURNER CONSTRUCTION CO., 11 Broadway, New York. About $20,000.

N. J., Newark—Newark Rivet Wks., 262 Lafayette St. let contract 1-story, 52x78-ft. addition to storage building to SALMOND BROS. CO. 526 Elm St., Arlington. About $11,000.

N. J., Passaic—Merrick Scale Co., 223 Main Ave., let contract 1-story, 75x85-ft. plant to ROOSMA BROS., 400 Highland Ave., Passaic. About $20 000. Noted Nov. 9.

N. J., Perth Amboy—Roessler & Hasslacher Chemical Co., Front St., let contract 1-story, 60x130-ft. storage house to AUSTIN CO., 26 South 15th St., Phila., Pa. About $20,000.

N. J., Perth Amboy—Roessler & Hasslacher. Chemical Co. let contract 2-story factory to STONE & WEBSTER CORPORATION, 147 Milk St., Boston, Mass., $50,000.

N. J., Spa Springs—(Woodbridge post office)—New Jersey Glue Co., let contract 1-story factory to J. A. JOSEPHSON, 13 Stanton Court, Rahway. Noted Jan. 6.

Pa., Erie—Erie City Iron Wks., East Ave. and New York Central R.R., let contract 1-story, 38,229-ft. addition to H. SHENK CO., 12th St. and Sassafrass Ave. About $24,000.

Pa., Johnstown—M. Schoenfeld let contract garage to W. H. SMITH SONS, Hornerstown Boro., Johnstown. About $20,000.

Pa., Lancaster—Lancaster General Hospital let contract 1-story, 44x54-ft. laundry to H. WOHLSEN, Woolworth Bldg., Lancaster. About $10,000. Noted Sept. 7.

Md., Baltimore—Baltimore & Ohio Railroad Co. to build addition to storehouse at Mt. Clare shops on West Pratt St. by company forces under supervision of J. L. Crothers, master carpenter of company. About $16,000.

Md., Lonaconing—Lonaconing Glass Co. let contract plant to O. GERLACH, Frostburg.

Va., Lynchburg—S. H. Franklin let contract 1- and 2-story, 61x120-ft. bottling plant to C. W. HANCOCK & SONS, $10,000.

Va., Norfolk—J. E. Etheridge Lumber Co. let contract 1-story, 100x130-ft., 25x34-ft. addition to NASH-JONES CO., 72 Law Bldg., Norfolk. About $17 000.

Va., Norfolk—M. Hefflein, 426 Grandby St., let contract 2-story, 50x75-ft. warehouse to TRAVERS, WOOD CO. About $65,000.

W. Va., Charleston—A. Klipstein & Co. let contract 4-story, 58x120-ft. refrigerating plant to W. L. CROW CONSTRUCTION CO., 103 Park Ave., New York. Noted Nov. 30.

W. Va., Lewis—Roessler & Hasslacher Chemical Co., Perth Amboy, N. J., let contract plant to C. W. McNULTY CO., Charleston. About $1,000,000.

W. Va., North Mountain—Staunton Clay Products Co., Newark, Ohio, plans to build 45x90-ft., 80x96-ft. and 46x720-ft. by day labor. C. H. Forry, Newark, Ohio, Vice-Pres. and Mgr. Noted Dec. 21.

N. C., Gastonia—W. E. Todd let contract 2-story bakery to J. B. BEAL, $10,500.

Ala., Guin—B. E. Kenney Lumber Co., Frankfort, Ky., let contract dry kiln to L. MOORE DRYKILN CO., Jacksonville.

La., New Orleans—Union Stockyards Co. let contract stockyards and slaughter house to L. FAVROT, about $100,000.

Tenn., Binghamton—Chickasaw Cooperage Co., Memphis, let contract rebuilding plant to L. T. LINDSEY, Memphis.

Tenn., Chattanooga—Southern Pharmaceutical Co., Nashville, let contract 3-story laboratory on Main St. to C. H. HOWELL, $30,000.

Tenn., Johnson City—Johnson City Hosiery Mills let contract additions to T. S. MOULDY & CO., $20.000. Noted Nov. 16.

Ky., Winchester—Love Foundry and Machine Co. let contract rebuilding foundry to W. E. SINGLETON, Winchester.

Ohio, Cincinnati—Auto Tire and Repairing Co., 13th and Race St. let contract 2-story shop to F. SCHMIDT, $18,000. Noted Nov. 9.

Ohio, Cleveland—Cleveland Steel Car Co. let contract 1-story, 60x200-ft. addition to DUCHON BROS., 5809 Outhwaite Ave., Cleveland.

Ohio, Cleveland—Gutscher Sausage Co. let contract factory to H. TALMAN, 7010 Hope Ave. About $10,000.

Ohio, Cleveland—Ohio Varnish Co., 8004 Kinsman Rd. let contract 3-story addition to STEMPLE CONSTRUCTION CO., 3325 Scranton Rd. About $25,000.

Industrial Works (Continued)

Ohio, Warren—Warren City Tank and Boiler Co. let contract 1-story, 60x250-ft. warehouse to A. CLEWES Niles. About $15,000. Noted July 6.

Ohio, Youngstown—Youngstown Towel and Supply Co., 27 West Commerce St., let contract 2-story, 23x100-ft. laundry to M. KATZMAN, Youngstown. Noted Oct. 19.

Ind., Indianapolis—Peerless Foundry Co. let contract 4 buildings to G. A. WEAVER, about $35,000. Noted Nov. 23.

Mich., Detroit—Edmund & Jones Corp., let contract 1-story, 90x165-ft. storage building to D. WESLEY, 424 Morrell St. About $10,000.

Mich., Detroit—Rockwood Silica Sand Co. let contract 4 storage tanks to SMITH-SPARKS CONSTRUCTION CO., Houghton.

Mich., Detroit—Studebaker Bros. let contract 5-story, 80x260-ft. addition to plant at Campau St. and Scottem Ave. to J. STEWART CO., 30 Church St., New York. Noted June 8.

Mich., Flint—Weston Mott Co. Hamilton and Industrial St., let contract 175x360-ft. addition factory to W. E. WOOD CONSTRUCTION CO., 1805 Ford Bldg., Flint.

Mich., Port Huron—Morton Salt Co. let contract 1-story, 157x189-ft. grainer building to J. J. O'SULLIVAN & SONS, Water St., Port Huron.

Ill., Chicago—J. C. Deagan Inc., let contract 1-story, 50x157-ft. storage and manufacturnig building to ANDERSON & STRANDBERG, 19 South La Salle St., $12,000.

Wis., Milwaukee—Industrial Controller Co. let contract addition to E. STEIGERWALD & SONS, 2303 Galena St. Milwaukee. Noted Sept. 28.

Wis., Milwaukee—Progressive Metal Co., Barclay and Washington St., let contract 3-story, 140x160-ft. warehouse to P. RIESENS & SONS, 1018 Humboldt Ave. About $40,000. Noted Dec. 14.

Minn., Minneapolis—Cargill Elevator Co. let contract 30 grain storage tanks, 1,000,000-bu. capacity, to J. STEWART & CO., 110 South Dearborn St., Chicago, Ill.

Minn., Minneapolis—W. Hood Dunwoody Industrial Institute 4th Ave., S., and 11th St., let contract 2 shop buildings to PIKE & COOK CO., 416 South 5th St.

Minn., Minneapolis—Ninth St. Holding Co. let contract laundry, 909 Mary Pl., to M. SCHUMACHER, 39 Dell Pl.

Minn., Minneapolis—Skellet & Co., 201 South 5th St., let contract warehouse, 261 6th Ave., S., to J. LECK CO. 316 South 7th St. About $150,000. Noted Dec. 14.

Minn., Minneapolis—H. L. Whitted let contract 2-story garage and salesroom to E. WILLIAMS CONSTRUCTION CO., 830 Hennepin Ave. About $25 000.

Mont., Butte—Shiner—Kelly Co., East Iron St., let contract 3-story warehouse to J. P. FINNEGAN.

Mo., St. Louis—Scullen Steel Co. let contract 1-story, 80x83-ft. addition to FRAIN-COLNON CONSTRUCTION CO., Laclede Bldg., St. Louis. About $85,000.

Tex., Beaumont—E. L. Wilson Hardware Co. let contract 2-story, rein.-con. warehouse to J. S. MERIWEATHER. About $70,000. Noted June 1.

Tex., Ft. Worth—Nissley Creamery Co. let contract 2-story plant to W. C. HEDRICH CONSTRUCTION CO. About $60,000. Noted Dec. 7.

Tex., Ft. Worth—J. M. Vincent let contract 2- or 3-story garage to BRYCE BUILDING CO., about $50,000. Noted Dec. 21.

Okla., Oklahoma—Oklahoma City Mill and Elevator Co. let contract 9 concrete tanks grain storage to BURRELL ENGINEERING AND CONSTRUCTION CO., 323 South La Salle St., Chicago, about $35,000. Noted Dec. 21.

Okla., Shawnee—Atchison, Topeka & Santa Fe Ry. let contract machine shop to NELSON & SON, 614 South Michigan Ave., Chicago.

Calif., Los Angeles—Joannes Bros., 819 East 1st St., let contract 5-story, rein.-con. warehouse to LEONARD & PECK, H. W. Hellman Bldg., about $75 000. Noted Oct. 26.

Calif., Los Angeles—Los Angeles Shipbuilding Co. negotiating with Harbor Comn. lease on Los Angeles Harbor plant to include shops, buildings and wharves. About $750,000. Work to be done by day labor. E. G. Eckstrom, 237 I. W. Hellman Bldg., Rep.

Calif., Los Angeles—Supreme Baking Co., 401 North Ave., let contract bakery to F. GRAVES & SON, Builders' Exchange, about $65,000.

Calif., San Francisco—L. Gillig, Post and Franklin St., let contract auto salesroom and garage to BARRETT & HILP, Sharon Bldg., San Francisco, about $45,000. Noted Dec. 7.

Calif., South Vallejo—(Vallejo post office)—Sperry Flour Co. let contract mill and elevators to DINWIDDIE CONSTRUCTION CO., Crocker Bldg., San Francisco. Noted Oct. 12 under Vallejo.

N. B., St. John—Dept. Railways and Canals, Ottawa, let general contract elevator to FEGLES-BELLOWS ENGINEERING CO., Ft. William; foundations to ENGINEERS AND CONTRACTORS, LTD., St. John. About $250,000. Noted Sept. 14.

Que., Granby—Granby Chair Co. let contract addition to A. KENT. About $10,000.

Que., Montreal—F. W. Horner, Ltd., 142 St. Urbain St., let contract factory to MUNN & SHEA, 67 Cuthbert St. Noted Oct. 26.

Que., Pointe-aux-Trembles—Parlor Furniture Manufacturing Co., Ltd., let contract factory to A. CHOQUETTE, 170 Bourbonniere St.

Ont., Hamilton—Hamilton Steel Wheel Co. let general contract temporary factory to CANADIAN ENGINEERING CO. Noted Nov. 2.

Ont., St. Catherines—St. Catharines Steel and Metal Co. let contract factory to NEWMAN BROS., 75 St. Paul St.

Ont., Thorold—Exolon Co. let steel contract on new $100,000 addition to STANDARD STEEL CONSTRUCTION CO., Welland.

Ont., Trenton—Imperial Munitions Bd. let contract factory buildings to PRATT ENGINEERING AND MACHINERY CO., 61 Broadway, New York.

FEDERAL GOVERNMENT WORK

Proposed Work

N. Y., Waterloo—Post Office—James A. Wetmore, Act. Superv. Arch., Treasury Dept., receiving bids Jan. 26. Noted July 6.

Md., Indianhead—Buildings—Bureau of Yards and docks, Navy Dept., Washington, D. C., receiving bids Jan. 15, 6 buildings, Naval Proving Ground, Indianhead.

La., New Orleans—Bulkhead—U. S. Engr. Office, Customhouse, New Orleans receiving bids Jan. 16, Southwest Pass., Mississippi River. (See adv. in Dec. 21 issue.)

Tenn., Memphis—Lumber—Mississippi River Comn., U. S. Engr. Office, Custom House, Memphis, receiving bids Jan. 2, 771,000-ft. b. m. yellow pine.

Ill., Rock Island—Building and Railroad—Commanding Officer, Rock Island Arsenal, receiving bids Jan. 10 concrete hollow tile storehouse, 350-ft. standard railroad.

Ill., Rock Island—Storehouses—Commanding Officer, Rock Island Arsenal, receiving bids Jan. 3, 18 hollow-tile.

Colo., Denver—Gates—U. S. Rec. Ser. Denver, receiving bids Jan. 10, butterfly and cylinder, for Flathead Project, Mont.

Colo., Denver—Caterpillar Traction—U. S. Rec. Ser., Denver, receiving bids Jan. 2 traction and sub-base for attachment of drag-line excavation for Truckee-Carson Project, Nev.

Calif., Ft. Mason—Miscellaneous Supplies—Depot Quartermaster, Ft. Mason, San Francisco, receiving bids Jan. 10, Schedule No. 156.

Panama—Miscellaneous Supplies—E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Jan. 11, Circular No. 1109.

Bids In and Contracts Awarded

N. Y., New York—Paving—Bureau Yards and Docks, Navy Dept., Washington, D. C., let contract wood block paving, Navy Yard to FRANKLIN CONTRACTING CO., 52 Vanderbilt Ave., New York, $2.38 per sq.yd. Noted Nov. 30.

Pa., Phila.—Steel Barges— U. S. Engr. Office, Phila., received low bids Dec. 21, 4 barges, from American Bridge Co., Frick Bldg., Pittsburgh, $11,000; Walk & Murdoch Co., Charleston, S. C., $17,164.

S. C., Charleston—Buildings—Bureau Yards and Docks, Navy Dept., Washington, D. C., let contract radio buildings, tower and masts to CHARLESTON ENGINEERING AND CONTRACTING CO., 58 Broad St., Charleston, $7,595; PITTSBURGH-DES MOINES STEEL CO., Curry Bldg., Pittsburgh, Pa., $8,400. Noted Dec. 14.

Ky., Ashland—U. S. Engr. Office, Cincinnati, Ohio, rejected bids 2 lock tenders dwellings at Dam No. 29, Ohio River, near Ashland. Noted Nov. 16.

Mo., St. Louis—Levee Work—Mississippi River Comn., 1311 International Life Bldg. rejected bids 40,000-cu.yd. earth work in East Side Levee and Sanitary Dist., Ill. Noted Oct. 12.

Tex., El Paso—Canal Excavation—U. S. Rec. Ser., El Paso, received low bids 185,000 cu.yd. excavation, 29,000 cu.yd. levee from Lee Moor Contracting Co., 302 Republic Bldg., $39,921; D. O. Johnson, Phoenix, Ariz., $62,617; J. C. Plemmons, Arrey, N. M.

Wash., D. C.—Grading-Dist. Comrs. received low bids Dec. 14, 201,000-cu.yd. on certain streets from G. B. Mullen Co., E. G. Gummell, 36 Pennsylvania Ave., N. W., W. F. Brenizer Co., Q and 1st St., N. W. Noted Dec. 7.

Wash., D. C.—Highway Bridges—U. S. Rec. Ser., Washington, received low bids Dec. 20, steel, Sherburn Lakes Dam, Mont., from East St. Louis Bridge Co., East St. Louis, Ill., Lakeside Bridge and Steel Co., North Milwaukee, Wis., Des Moines Bridge and Iron Co., Des Moines, Ia.

Calif., Vallejo—Cranes—Bureau of Yards and Docks, Navy Dept., Washington, D. C. received low bids Dec. 16, 2 fitting-out cranes at Navy Yard, Mare Island, Calif., (a) delivered and erected on foundations furnished by Government, (b) f.o.b. works, from V. R. Browning & Co., 17,701 Lakeshore Blvd., Cleveland, (a) $22,000 each; McMyler Interstate Co., Bedford, Ohio, (a) $49,993, (b) $59,793; Heyle & Patterson, 50 Water St., Pittsburgh, Pa., (a) $55,176, (b) $39,185. Noted Dec. 14.

Hawaii, Pearl Harbor—Crane—Bureau of Yards and Docks, Navy Dept., Washington, D. C. let contract 50-ton locomotive jib to V. T. BROWNING & CO., 177701 Lake Shore Blvd., Cleveland, Ohio, $94,852. Noted Dec. 7.

CANALS, DITCHES AND IRRIGATION

Proposed Work

Miss., Carthage—Drainage—Standing Pine Drainage Dist. No. 1, Leake County, receiving bids Jan. 8, canal, 4¾ mi. long. N. F. Wallace, Carthage, Clk Chancery Court.

La., St. Bernard—Drainage—Versailles Drainage Dist., organized to drain between 1,000 and 2,000 acres from Bayou Bienvenue to city limits, St. Bernard County. J. W. Gladry and R. H. Gregory, Comrs.

Tenn., Alamo—Drainage—Crockett, Gibson and Dyer Counties plan Middle Forked Deer Drainage Dist. J. A. Robertson, Alamo, Chn. County Court, Crockett County. Ferre & McClesky, Arch.

Ind., Huntington—Ditch—Huntington County receiving bids Jan. 5, Hicks Ditch. G. Hock, Huntington, Drainage Comr.

Ind., Logansport—(Official)—Ditch—Drainage Comrs., Cass County, Court House, receiving bids Dec. 30, Jackson Township. H. E. Martin, Logansport, Comr.

Ia., Estherville—Ditch—Emmet County receiving bids Jan. 4, Ditch No. 112. R. J. Ridley, Estherville, Audr.

Ia., Ft. Dodge—Drainage—Webster and Wright Counties receiving bids Jan. 11, cleaning and deepening Drain No. 13, Newark Township; and Drain No. 11, Troy and Eagle Grove Townships. About $7,280. J. L. Hanrahan, Audr. Webster County, and F. E. Osier, Audr. Wright County.

Ia., Glenwood—Ditch—Mills County plans Nishnabotna Ditch No 3. About $6,838. P. E. Humphrey, Glenwood, Audr.

Ia., Primghar—Ditch—O'Brien County soon receives bids in Drainage Dist. No. 4. M. Kerrigan, Primghar, County Engr.

Ia., Sac City—Drainage—Sac County plans, Coon Valley Township. W. D. Maxwell, Sac City, County Engr.

Minn., Cambridge—Ditch—Isanti County receiving bids Jan. 5, Ditch No. 12, about $13,076. G. S. Smith, Cambridge, County Audr.

Minn., Henderson—Ditch—Sibley and McLeod Counties, Henderson, receiving bids Jan. 20, Judicial Ditch No. 5. About $7,068. F. Hoppenstedt, Henderson, Audr. Noted Nov. 16.

Minn., Minneapolis—Ditch—Bd. Superv., Hennepin County, authorized E. E. Terrell, County Surv., to make survey and estimate cost public ditch in City Minneapolis and St. Louis Village. A. P. Erickson, Court House, Audr.

Minn., Redwood Falls—Ditch—Redwood County plans $43,000 bond issue, Judicial Ditch No 15. W. H. Holz, Redwood Falls, County Audr. Noted Apr. 6.

Minn., Warren—Ditch—Beltrami, Pennington and Marshall Counties plan Judicial Ditch No. 39, 150 mi. long, ⅔ floater work and balance dry land work. About $300,000. G. Walker, Thief River Falls, Engr.

Kan., Kansas City—Drainage—Kaw Valley Drainage Bd., 719 Osage Ave., receiving bids Jan. 3, 15,700 sq.yd. riprap revetment on Kansas River.

Neb., Wakefield—Ditch—Dixon County, Wakefield Drainage Dist., plans. About $75,000. Address A. N. Porter, Ponca, County Clk.

Mo., Monticello—Drainage—Bd. Supervs., Lewis County, North Fabius River Drainage Dist., at office T. L. Johnson, Monticello, receiving bids Jan. 10, channel, about 540,000 cu.yd. excavation. Elliott & Harman Engineering Co., 144 Fredonia Ave., Peoria, Ill., Engr.

Tex., Brackettville—Irrigation—A. F. Biedler, Hinsdale, plans dam across Hondo Creek, for irrigation purposes.

Tex., San Benito—Irrigation—Cameron County, Dist. No. 2, voted $600,000 bonds, $340,000 to be used to purchase irrigation system San Benito Land and Water Co. and remainder to improve pumping plant and extend canal system. Address County Clk., San Benito. Noted Nov. 30.

Okla., El Reno—Drainage—J. W. Pryer, Pres. Citizens Drainage Com., interested in project to form drainage district of counties in North Canadian River Valley. L. B. Clift, El Reno, appointed chairman of committee to confer with property owners in Canadian and Blaine Counties to form association of counties and district to build canal connecting North and South Canadian Rivers.

Okla., Lawton—Irrigation—Lawton Irrigation Dist., Comanche County, making preliminary plans irrigation district near Ft. Still Reservation. About $160,000. C. S. Pease, Lawton, Engr.

Colo., Pueblo—Irrigation Improvements—Welton Ditch Co. plans.

Utah, Garfield—Ditch, Etc.—J. F. Tidwell applied to Comrs. Salt Lake County, Salt Lake City, permission to build dam and ditch system along Storr Creek.

Bids In and Contracts Awarded

Tenn., Dyersburg—Drainage—Bogota Drainage Dist. of Dyer and Obion Counties let contract about 405,000 cu.yd. excavation to J. P. CARR, Ft. Wayne, Ind., $25,260. Noted Dec. 21.

Canals, Ditches and Irrigation (Continued)

Ind., Ft. Wayne—Ditch—Allen County let contract Whitney Ditch, Madison and Jefferson Townships, to J. TROTTMAN, Monroeville, about $4,161.

Ind., Rochester—Ditch—Fulton County let contract L. N. Bair Ditch to L. G. HOLTZ, about $6,725.

Ill., Arcola—Ditches—City let contract improving ditches in Drainage Dist. No. 10 to NATIONAL DRAIN TILE CO., Terre Haute, Ind. About $15,400.

Ia., Eldora—Ditch—Hardin County let contract furnishing tile ditch, Drainage Dist. No. 95, to ELDORA PIPE AND TILE CO., about $4,266. No bids received for labor

Ia., Sibley—Drainage—Osceola and Dickinson Counties, Dist. No. 3, let contract joint drainage district to J. H. SALISBURY, Dows, about $180,575. Noted Nov. 30.

Minn., Bermidji — Ditches — Beltrami County plans Judicial Ditch No. 40, Spruce Grove Township No. 156, Range 36. About $42,684. Address County Clk., Bermidji.

Minn., Detroit—Ditch—Becker County received low bids Ditch No. 15 from Khoeler Contracting Co., Frazee, .10c. cu.yd ; Gleason & Co., Aitkin, .105c. ; Northwestern Drainage Co , Grand Rapids, .106c.

Minn., Fairmont—Ditch—Martin County let contract, Judicial Ditch No. 41, to REDDING & SINAAGE, Windom, about $8,800.

Minn., Duluth—Ditch—St. Louis County let contract County Ditch No. 6 to NORTHWESTERN DRAINAGE CO., Grand Rapids, Wis. About $200,000. Noted Nov. 23.

Minn., Warren—Ditch—Marshall County let contract Ditch No. 28 to NORTHWESTERN DRAINAGE CO., Grand Rapids, 132c. cu.yd.

MISCELLANEOUS

Proposed Work

Mass., Boston—Fountain—City plans near Summer St. About $6,000. Same is gift to city by will of Sarah E. Conery.

Mass., Lynn—Improving Creek—City plans $6,000 bond issue at Strawberry Brook. W. L. Vennard, City Engr. Noted July 13.

Mass., Montague—Park—Turners Falls Power and Electric Co. and Connecticut Valley Street Railway Co., plan. About $150,000. W. J. Howes, 243 High St., Holyoke, Arch.

Ct., Bridgeport—Amusement Resort—C. R. Wilson, Mayor, recommended that Council purchase Steeplechase Island for amusement resort, also build comfort station on Catherine St. A. H. Terry, City Engr.

Ct., Bridgeport—Park—Bd. Aldermen adopted resolution of Bd. Park Comrs. to purchase Beach's Woods on Madison Ave. park. Tract comprises about 35 acres. G. H. Eames, Pres. Park Bd.

N. Y., Great Neck—Dock—H. De Lesser plans large dock, Grenwold Estate, Manhasset Bay.

N. Y., Hornell—Coal Pockets and Interlocking Switch System—Erie R.R. made plans, 1,000-ton capacity. About $45,000. W. J. English, Hornell, Div. Supt. R. S. Parsons, 50 Church St., New York, Ch. Engr. Noted Oct. 26.

N. Y., New York—(Brooklyn)—Bath House—F. Mogiola, 931 Ocean Ave., made plans 3-story, 40x122-ft. About $15,000. L. Allmendinger, 20 Palmetto St., Arch.

N. Y., New York—(Brooklyn)—Subway—Pub. Ser. Com., 120 Broadway, Manhattan, receiving bids Jan. 10, Route 31, part of Eastern Parkway Rapid Transit R.R., Livonia Ave. extension, 2-track elevated line. Contract for this work recently rescinded. Noted June 22.

N. Y., New York—(Manhattan)—Coal Railway—Dept. Pub. Charities, Municipal Bldg. rejected bids automatic coal railway and trestle at power house, Metropolitan Hospital, Blackwells Island. New bids in spring. Noted Oct. 12.

N. Y., New York—(Manhattan)—Pier—Dept. Docks and Ferries making plans extension Pier 29 to be leased to Pennsylvania R.R., 7th Ave. and 32nd St.

N. Y., New York—(Richmond)—Mausoleum—Community Mausoleum Co., c/o F. G. Stanley, Times Bldg., Manhattan, receiving bids superstructure, 1-story, 30x90-ft , about Jan. 1. Clinton & Russell, 32 Broadway, Manhattan, Arch.

N. Y., Oswego—Subway—City making plans, under tracks New York Central and Ontario & Western Ry. tracks, East 9th and Schuyler St. J. F. Flanigan, City Engr. Noted Nov. 2.

N. Y., Rochester—Fire house—City plans on St. Paul St. between Andrews and Franklin St. F. T. Elwood, City Engr.

N. J., Somerville—Elimination Grade Crossings—Central R.R. of New Jersey plans elevation tracks through Somerville ; 3 grade crossings and elimination important grade crossings on line from Finderne to Raritan. Plans submitted to Bd. Pub. Utility Comrs. for approval. About $1,800,000. A. E. Owen, 143 Liberty St., New York, Ch. Engr.

N. I., Trenton Junction—Elimination Grade Crossing—Bd. Pub. Utility Comrs. approved plans tunnel to eliminate grade crossing at Trenton Junction for Philadelphia & Reading Ry. S. T. Wagner, Reading Terminal, Phila., Ch. Engr. Ry. Noted Dec. 7.

Penn., Philadelphia—Piers—Pennsylvania Sugar Refinery Co., 1039 North Delaware St., applied to Dept. Wharves Docks and Ferries permission to improve and extend Piers Nos. 46 and 47 North Wharves.

Pa., Phila.—Stadium—Dir. Athletic Asociation Universtiy of Pennsylvania, 33rd and Locust St., plans. E. T. Smith, L.L.D., Pres.

Penn., Pitcairn—Coaling Station—Pennsylvania R.R. plans being made, $80,000. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Pa., Tuckerton—(West Leesport post office)—Elimination Grade Crossings—Philadelphia & Reading Ry. plans. S. T. Wagner, Reading Terminal, Phila., Ch. Engr.

Md., Baltimore—Elimination Grade Crossings—City, Baltimore & Ohio Railroad Co. and Western Maryland Ry plan to connect Hanover St. over tracks Baltimore & Ohio R.R. at Winder St. and over tracks Western Maryland Ry. at Donaldson St. with 2 viaducts with fill between Baltimore & Ohio R.R. ; also plans to eliminate all other crossings on Hanover St. R. N. Begien, Baltimore and Charles St., Ch. Engr., former railawy, and H. R. Pratt, Continental Bldg , Ch. Engr. latter.

Md., Bengies—Race Track, Etc.—Singer-Pentz Co., 600 Equitable Bldg., Baltimore, plans. About $150,000.

Va., Norfolk—Road Roller, Etc.—Comrs. Rds. and Bridges Norfolk County plan to purchase road roller and scarifier. Address County Clk., Norfolk.

Va., Sewalls Point—Coal Dumping Plant—Virginian Ry. plans to enlarge. H. Fernstrom, Norfolk, Ch. Engr.

Ga., Atlanta—Swimming Pool—Park Comn. plans to spend $10,000 swimming pool in Grant Park. G. P. Freeman, Chn. Noted Feb. 10.

La., New Orleans—Fountain—Mrs. E. Joseph and Mrs. Cora G. Moses presented city with $10,000 to install memorial fountain in Audubon Park. Olmsted Bros., Brookline, Mass., to assist with design.

Ky., Lexington—Swimming Pool—Parent-Teachers' Assoc plans community swimming pool. R. Wilkinson, Pres.

Ky., Louisville—Bathing Beach—Bd. Park Comrs. plan, Shawnee Park. B. Washer, Chn.

Ohio, Cleveland—Amusement Park—H. P. Angel, Leader-News Bldg., and associates, with $2,000,000 capital, plan to acquire recently organized Aëroplane Syndicate Amusement Co., and plan park.

Ohio, Cleveland—Market—St. Clair Market Co., Union Bldg., granted permit, 10602 St. Clair Ave. About $80,000. H. T. Jeffery, 1836 Euclid Ave., Arch. and Engr.

Ohio, Toledo—Subway—City, New York Central R.R. Lines West of Buffalo, and Michigan Central R R. plan on Central Ave. About $288,000, $98,000 to be appropriated by city. H. McKechnie, City Engr. G. C. Cleveland, St. Clair Ave. and West 3rd St., Cleveland, Ch. Engr., former railroad and G. H. Webb, Passenger Terminal Station, Detroit, Ch. Engr., latter.

Ind., Angola—Monument—Steuben County receiving bids Jan. 18, Soldiers' Monument. F. C. Dewey, Angola, Audr.

Ind., Columbus—Levee—W. A. Abbott and G. A. Blessing, Comrs., appointed by Judge Circuit Court, recommend that levee in White River be removed as an aid to flood prevention. G. Rader, City Engr.

Ind., Indianapolis—Flood Protection—City plans to issue $116,640 bonds for flood protection work. B. J. T. Jeup, City Engr. Noted June 1.

Ind., Indianapolis—Street Sweepers—City plans to purchase. B. J. T. Jeup, City Engr.

Ill., Blue Island—(Official)—Swimming Pool—Blue Island Park Bd. receiving bids Jan 1 rein.-con., and frame locker house. About $10,000. Noted Oct. 5. (See adv. in Dec. 21 issue.)

Minn., Bemidji—Hockey Rink, Etc.—R. Lycan making plans 130x160-ft. hockey rink and 40x12-ft.. warming rink.

Minn., Duluth—Park Improvements—J. A. O. Preus, State Audr., will recommend that Legislature appropriate $30,000 improving Jay Cooke Park. L. Ayers, City Engr.

Minn., Eveleth—Park Improvements—Council plans to spend about $15,000 improving Athletic Park.

Kan., Winifield—Park Improvements—City defeated $15,000 bonds to improve parks. Noted Nov. 23.

S. D., Deadwood—Lawrence County receiving bids Jan. 8 concrete retaining walls, culverts, abutments, bridges, etc., as may be required during 1917. F. Harris, Deadwood, County Audr.

Mo., St. Louis—Elimination Grade Crossings—City plans election in May or June to vote on $2,000,000 bonds. E. R. Kinsey, Pres. Bd. Pub. Ser.

Tex., Austin—Docks, Terminals, Etc.—City plans $230,000 bond issue on water front. M. C. Welborn, City Engr.

Tex., Beaumont—Levee, Etc.—South Texas State Fair Association plans to improve Island Park for fair grounds and to build levee around Island Park, bridge across Brake's Bayou and auditorium. About $150,000. P. B. Doty, Dir.

Tex., Beaumont—Natatorium—Park Bd. plans. About $10,000. C. L. Scherer, City Engr.

Tex., Dallas—Natatorium—G. S. Leachman making plans 2-story, 1816 Harwood St. About $50,000. Orlopp & Orlopp, Arch. Noted Sept. 7.

Tex., East Dallas—(Dallas post office)—Elimination Grade Crossing—Texas & Pacific Ry. made plans rein.-con. viaduct on Pacific Ave. at crossing of Houston & Texas Central Ry., East Dallas, to Broadway near Trinity River. 4 tracks. About $1,000,000. C. H. Chamberlin. Dallas, Ch. Engr. Noted Dec. 14.

Tex., Waco—Coliseum—Texas Cotton Palace plans. About $150,000.

Idaho, Lava Hot Springs—Bath House—J. K. White, Boise, State Sanitary Inspector, to ask next legislature to appropriate $25,000.

Ariz., Phoenix—(Official)—Paving Plants, etc.—City desires quotations on municipal paving plant, graders, fresnos, slips dump wagons, (grading and asphalt) railroad plows, 12-ton steam roller, 8-ton tandem asphalt roller, gyratory rock crushers and elevators. J. B. Girand, City Engr.

Wash., Bellingham—Dock—City plans, Whatcom Creek. About $25,000. T. F. Doan, Engr.

Wash., Tacoma—Ferry and Docks—Pierce County appropriated $30,000 ferry and docks between Tacoma and Vashon Island points, also new wharf at Old Town inside breakwater for terminal. Work to be started next year. Address County Clk., Tacoma.

Calif., Pomona—Flood Protection—County plans to issue $400,000 bonds for controlling flood waters of San Antonio, Williams and San Dimas Canyons by turning waters into reservoir and letting it seep off. Address County Clk., Pomona.

Calif., Pomona—Mausoleum—Cemetery Association plans. About $65,000.

Calif., Sacramento—Pavilion—State Bd. Control plans, to replace one for State Fair recently destroyed by fire. About $300,000. J. S. Chambers, State Controller.

Calif., San Francisco—Fire House—City and San Francisco County making plans, 3-story, 25th and Vermont St. About $35,000. Ward & Blohme, Alaska Commercial Bldg., Arch.

Calif., San Francisco—Pier—State Bd. Harbor Comrs. approved plans Pier No. 3, foot Washington St., 138x700-ft., concrete and timber.

Ont., Sarnia—Market—Council plans new market buildings. J. D. Stewart, City Clk.

Ont., Toronto—Fill—Council to appropriate $15,000 of $40,000 necessary to complete Boor St. fill.

Ont., Windsor—Crusher—Council authorized purchase motor feed crusher. M. E. Brian, City Engr.

B. C., Vancouver—Tunnel—Council negotiating with officials Canadian Pacific Ry. to build tunnel under central portion Vancouver. W. McQueen, City Clk. W. E. Woodhouse, Montreal, Ch. Engr. Ry.

Bids In and Contracts Awarded

Pa., Phila.—(Official)—Pier—G. S. Webster, Bourse Bldg., Dir., Dept. Wharves, Docks and Ferries, let contract pier foot of Cherry St. to SNARE & TRIEST CO. 233 Broadway, New York, $439,726. Noted Dec. 7.

Pa., Phila.—Playgrounds—City let contract improving playgrounds, Cedar and Cambria St. to J. CONNOR, 2848 Frankford Ave., $70,000. Noted Nov. 30.

Fla., Miami—Swimming Pool, etc.—C. G. Fisher, Box 64, Route B, let contract C. J. WACKER. Noted Dec. 21.

Ohio, Cleveland—Amusement Pavilion—Luna Park Amusement Co. let contract to ANDREWS BROS. CONSTRUCTION CO., 130 Engineers Bldg., $40,000. Noted Dec. 14.

Mich., Flint—(Official)—Subway—City let contract 185½ tons structural steel for subway under tracks Pere Marquette R.R. to McCLINTIC MARSHALL CO., 58 Lafayette St., Detroit, $13,594. Noted Nov. 23.

Neb., Omaha—Channel—Douglas County let contract in Mosquito Creek to STERNBERG BROS., St. Louis, Mo., $31,095.

Mo., Kansas City—Roller Coaster—Electric Park Amusement Co., 47th and Lydia St. let contract to McFADDEN CONSTRUCTION CO., Grand Rapids, Mich., $70,000.

Ore., Portland—(Official)—Elimination Grade Crossing—City received low bids Dec. 6 for eliminating grade crossings Oregon-Washington R.R. and Navigation Co. from Pearson Construction Co., New York Bldg., Seattle, $561,283 ; Porter Bros., Railway Exchange Bldg., $617,428 ; Warren Construction Co., Journal Bldg., $649,590. Noted Sept. 28.

Calif., Artesia—Dyke—City let contract earth dyke along East San Gabriel River to A. STUTZER, Venice, 19c. cu.yd.

Calif., Bakersfield—Road Roller—Kern County rejected bids. Address County Clk., Bakersfield

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Vt., Proctor—Office—Vermont Marble Co. soon receives bids. R. C. Sturgis, 120 Boylston St., Boston, Mass., Arch.

Buildings (Continued)

Mass., Arlington—Nurses' Home—Symmes Arlington Hospital made plans 3-story, 33x65-ft. Kendall, Taylor & Co., 93 Federal St., Arch.

Mass., Cambridge—Bank—Manufacturers National Bank made plans 3-story 89x90-ft. W. L. Mowll, 185 Devonshire St., Boston, Arch. Noted Nov. 2.

Mass., Lenox—Sanitarium—F. H. Giblett, 20 Elizabeth St., Pittsfield, interested in building sanitarium. About $200,000.

Mass., Wrentham—Dormitory—State revised plans. About $56,000. Kendall, Taylor & Co., 93 Federal St., Arch.

R. I., Providence—Theater—Keith Co. plans 5-story 81x157-ft., brick on Snow St. A. E. Westover, Keith Bldg., Phila., Pa., Arch.

Ct., Bridgeport—Fire and Police Building—Bd. Contract and Supply, City Hall, soon receives bids, at Fairfield Ave. and King St. L. Asheim, 211 State St. Arch.

Ct., Bridgeton—Church—United Congregational Church made plans. About $50,000. C. Gilbert, 11 East 24th St., New York, Arch.

Ct., Hartford—High School—City made plans, soon receive bids 109x156-ft. About $250,000. I. A. Allen, Jr., Arch. Noted June 22.

Ct., New Britain — Temple — New Britain Masonic Temple Corp. plans on South High St. About $50,000.

Ct., New Haven—Church—Church of the Redeemer made plans. Rev. R. M. Houghton, Pastor. Cady & Gregory. 40 West 32d St., New York, Arch.

Ct., New Haven—School—Bd. Education receiving bids Jan. 6 on Harrison Ave. Brown & Von Beren, 185 Church St., New Haven, Arch.

Ct., Waterbury—Clubhouse—Waterbury Club making plans. C. Gilbert, 11 East 24th St., Waterbury, Arch.

N. Y., Amsterdam—School—City making plans 2-story. About $85,000. W. Potter, 1 Union Sq., New York, Arch. Noted Oct. 5.

N. Y., Binghamton—Clubhouse—Binghamton Country Club plans.

N. Y., Buffalo—City Terminal Comn. approved plans passenger terminals at Buffalo for New York Central R.R. About $11,000,000. G. W. Kittredge, Grand Central Terminal. New York, Ch. Engr. Noted Nov. 9.

N. Y., Cold Springs—Hospital and Library—Village making preliminary plans 2- and 1-story. Crow, Lewis & Wickenhoefer, 200 5th Ave., New York, Arch.

N. Y., Lackawanna—Bank—Lackawanna Trust Co. and Lackawanna National Bank made plans 1-story, 40x110-ft. About $40,000. N. Dunning, Builders Exchange, Buffalo, Arch.

N. Y., Long Beach—(Official)—New York Telephone Co. making plans building.

N. Y., Matteawan — (Beacon postoffice) — Women's Building—Manhattan State Hospital plans addition. About $60 000. L. F. Pilcher, Capitol, Albany, Arch.

N. Y., Mineola—Hospital—Bd. Superv. Nassau County purchased 100 acres Bethpage Tract, plans tuberculosis hospital.

N. Y., Morristown—Lyceum—City plans. About $50,000.

N. Y., New York—(Brooklyn)—(Official)—High School—Bd. Education making plans addition Bushwick High School, Irving and Putnam Ave. C. B. Synder, 500 Park Ave., Brooklyn, Arch.

N. Y., New York—(Manhattan)—(Official)—Theater—Mrs. M. H. Lewis, 25 West 11th St., soon receives bids 3-story, 53x101 ft., on 4th and Christopher St. About $75,000. H. L. Meader, 4 West 33d St., Manhattan, Arch.

N. Y., Sherrill—High School—City to vote on bonds to build high school.

N. Y., Silver Creek—School—Bd. Education made preliminary plans. About $80,000. H. S. Horton, 428 Marine National Bank Bldg., Buffalo, Arch.

N. Y., Woodmere—School—Bd. Education plans. H. Bacon, 101 Park Ave., New York, Arch.

N. J., Lodi—School—City plans, on Constant Ave. About $75,000.

N. J., Montclair—Church—Central Presbyterian Congregation making plans 1½-story, 60x110-ft. About $75,000. Carrere & Hastings, 52 Vanderbilt Ave., New York, Arch.

N. J., Montclair—School—Bd. Education receiving bids Jan. 2, 2-story addition to Nishuane School. About $175,000. Starrett & Van Vleck, 8 West 4th St. New York, Arch. L. L. Jackson, 22 Valley Rd., Secy. Noted Dec. 21.

N. J., Montclair—School—Bd. Education receiving bids Jan. 2, 2-story addition to Watching School. L. L. Jackson, 22 Valley Rd., Secy. Noted Dec. 21.

N. J., Morristown—Hall—City plans rebuilding Lyceum. About $50,000. G. Willis, 235 South St., interested.

N. J., Sea Bright—Hotel—Peninsula House, Ind., care of J. Connolly, 27 William St., Manhattan, making plans 3-story addition. C. B. Myers, 1 Union Sq., Manhattan, Arch.

N. J., Vineland—Church—Sacred Heart Congregation made revised plans 1-story, 68x150-ft. About $40,000. H. G. Hammer, 115 Keswick Ave., Glenside, Pa., Arch.

Pa., Aspinwall—High School—Bd. Education soon receives bids 2-story, 75x160-ft. About $75,000. P. C. Dowler, Arrott Bldg., Arch. Noted Nov. 30.

Pa., Conshohocken — Rectory — St. Matthews Congregation making plans 2-story, 40x75-ft. stone.

Pa., Doylestown—(Official)—Science Building—National Farm School soon receives bids. About $75,000. Magaziner & Potter, 603 Chestnut St., Phila., Arch. Noted Dec. 14.

Pa., Farrell—School—School Bd. plans at Hamilton Ave. and Bond St. About $75,000.

Pa., Lewistown—Y. M. C. A. made plans 3-story, 90x140-ft. About $75,000. J. B. Hamme, York, Arch. Noted Sept. 28.

Pa., Newton—School—Town making plans 2-story. 76x82-ft., brick and stone addition. E. F. Bertolet, Arch.

Pa., Phila.—Bell Telephone Co. plans 3-story, 90x137-ft. addition to its Germantown Exchange building.

Pa., Phila.—Clubhouse—Musical Art Club making plans 4-story, brick and rein.-con., at 1809-17 Ranstead St. Price & McLanahan, Bellevue Court Bldg., Phila., Arch.

Pa., Red Lion—Church—United Evangelical Congregation making plans 2-story. About $60,000. J. B. Hamme, Weist Bldg., York, Arch. Rev. J. T. Pettit 1st Ave., Red Lion, Pastor.

Pa., Sharon—Hospital—City plans addition Buhl Hospital, East State St.

Pa., Williamsport — Clubhouse — Williamsport Lodge No. 173, B. P. O. Elks plans.

Pa., York—Bank—First National Bank made plans 1-story, 35x83-ft. About $100,000. Gennill & Billmeyer, Rosenmiller Bldg., Arch. Noted Nov. 30.

Va., Norfolk — Church — Knox Presbyterian Congregation plans 2-story addition.

Va., Portsmouth—High School—Bd. Education made plans, 3-story, 60x162-ft. About $40,000. C. M. Robinson Times-Dispatch Bldg., Richmond, Arch. Noted Sept. 7.

W. Va., Adamston—School—Harrison County voted $90,000 bonds to build school. Address County Clk., Clarksburg.

W. Va., Huntington—Auditorium and Gymnasium—Bd. Education receiving bids Jan. 3, for Junior High School, Jefferson Ave. and 10th St. V. T. Ritter, Huntington, Arch.

S. C., Crescent—School—Crescent and Bellevue Consolidated School Dist. plans.

S. C., Spartanburg—Office, Theater and Store—O. L. Johnson, J. T. Willard and P. B. Langford plans on Main St.

Ga., Rome — School — Darlington Preparatory School plans, at Mabley Park Spring. About $50,000.

Ga., Valdosta—Clubhouse—Valdosta Country Club plans.

Fla., St. Petersburg—High School—City voted in January on $175,000 bonds to build high school. G. N. Sleight, Supt.

Ala., Decatur—Hotel—Lyons Hotel plans addition. About $50,000. T. L. Hobart, Mgr.

La., New Orleans—Y. W. C. A. plans 3-story building on Gravier St. About $75,000.

La., New Orleans—New York Cotton Exchange plans building at Gravier and Carondelet St. About $350,000.

Tenn., Jefferson City—Administration Building—Carson-Newman College rebuild, recently destroyed by fire. Loss $60,000.

Tenn., Murfreesboro—High School—School Bd. making plans. About $50,000. G. B. Giltner, Mayor. Noted Oct. 19.

Ky., Danville—Hospital—City plans. About $75,000.

Ky., Danville—School—City made plans. About $50,000. Noted Nov. 23.

Ky., New Albany—Masonic Temple—F. & A. M. making plans at East 11th and Main St. C. Martindale, Fletcher Savings and Trust Bldg.. Indianapolis, Ind., Arch.

Ohio, Akron—Bank and Hotel—Commercial Savings Bank Co. receiving bids Jan. 10 12-story, 50x200-ft. About $300,000. T. B. Boyd, 286 5th Ave., New York, Arch.

Ohio, Arlington—Grade and High School Bd. Education voted bonds to build 2-story grade and high school. About $60,000. F. L. Packard, 1212 Hayden Bldg., Columbus, Arch.

Ohio, Canton—Bank and Office—Dime Savings Bank plans. About $150,000 or $200,000.

Ohio, Columbus—Exposition Halls—Columbus Exposition Building Co. made plans. About $300,000. L. F. Kiesewetter. Treas. Noted Sept. 7.

Ohio, Columbus—Hospital—Hospital Bd. plans at Fair and Miller Ave.

Ohio, Coshocton—Hospital—City receiving bids Jan. 25 addition.

Ohio, Dayton—Theater—M. Gates, Indianapolis, Ind., and associates, incorporated with $250,000 capital stock, plans on Main St.

Ohio, Dayton—(Official)—Church—Grace Methodist Episcopal Congregation receiving bids in spring. About $150,000. Schenck & Williams, 591 Arcade Bldg., Arch. Noted Dec. 14.

Ohio, Deschler—Grade and High School Bd. Education soon votes on bonds to build 2-story grade and high school. About $100,000. F. L Packard, 1212 Hayden Bldg., Columbus, Arch.

Ohio, Hamilton — Auditorium — Ft. Hamilton Lodge, No. 1437, L. O. O. M., made preliminary plans.

Ohio, Navarre—School—City plans.

Ohio, New Vienna—Grade and High School—Bd. Education soon votes on bonds to build grade and high school. About $70 000. F. L. Packard, 1212 Hayden Bldg., Columbus, Arch.

Ohio, St. Paris—School—City made plans. About $70,000. Rusk & Sheets, 145 High St., Columbus, Arch.

Ind., Evansville—Church—St. Johns Evangelical Church receiving bids in January, 3d and Ingle St. About $115,000. Noted Aug. 17.

Ind., Indianapolis—Hotel—C. E. Bates, Arch., 915 Hume Mauser Bldg., making plans 10-story.

Ind., Mitchell—Union Station—Baltimore & Ohio Southwestern R.R. made plans. F. T. Stewart, Baltimore, Ch. Engr.

Mich., Ann Arbor—Schools—Bd. Education making plans Mack and Bach Schools. About $60,000. R. W. Koch, 306 South State St., Arch.

Mich., Detroit—Michigan State Telephone Co. plans building at Grand River Ave. and Chope Pl.

Mich., Detroit—Hotel—C. E. Shippey, Arch., making plans.

Mich., Detroit—Club and Society Building—Congregation Ahavath Achim plans on Delmar Ave. near Westminister Ave. O. L. Silverstein Pres.

Mich., Flint—Hotel—German Lutheran Church making plans. About $650,000. F. A. Aldrich, Chn. Com.

Mich., Monroe—School—School Bd. plans. About $75,000.

Mich., Muskegon—Y. M. C. A. plans building. About $100,000.

Mich., Sparta—Library—Osgood & Osgood, Widdicomb Bldg., Grand Rapids, making plans Carnegie Library.

Ill., Chicago—Home—Milk Wagon Drivers' Union plans. About $300,000.

Ill., Chicago—Infirmary—City plans at Pythisis Sanitarium, Crawford and Bryn Mawr Ave. About $500,000. J. Hunt, 26 North Michigan St., Arch.

Ill., Peoria—(Official)—Hospital—St. Francis Hospital receiving bids Feb. 1. About $150,000. A. F. Moratz, Bloomington, Arch. Noted Dec. 14.

Ill., Urbana—Hotel—J. W. Royer, Arch., made plans, 6-story.

Wis., Clintonville—Hotel—A. J. Culper M. Madel and J. C. Bossard plans. About $60,000.

Wis., Kenosha—School—Bd. Education plans on North Side. About $75,000.

Wis., Madison—Bank and Office—Bank of Wisconsin making plans 6-story, at West Main St. and Monona Ave. About $250,000. J. M. Boyd, 1 East Main St., Pres.

Wis., Madison—Y. M. C. A. plans building.

Wis., Milwaukee — Sanitarium — Madison-Anti-Tuberculosis Association made plans, east side Lake Monona.

Wis., Milwaukee—Fraternity House—Phi Kappa Psi Alumni of University of Wisconsin plans. About $40,000.

Wis., Milwaukee—Clubhouse—Madison Club House Association making plans 3-story. $100,000.

Wis., Milwaukee—Y. M. C. A. plans building. About $150 000.

Wis., Shell Lake—High and Grade School—City making plans, bids in January. About $35,000 or $40,000. E. J. Hancock, 9 McGrath Bldg., Eau Claire, Arch.

Wis., Two Rivers—School—City soon votes on $75,000 bonds to build school. H. Krase, Village Clk.

Wis., Watertown—Jail—Common Council passed ordinance to enlarge jail.

Wis., Waukesha—Walworth County Bd. voted to issue $60,000 bonds to build tuberculosis sanitarium. R. M. Funk, Waukesha, County Clk. Noted May 25.

Ia., Cedar Rapids—Bank—Merchants National Bank, recently destroyed by fire, making plans 12-story. About $300,000.

Ia., Centerville—High School—City voted $150,000 bonds to build high school. Noted Nov. 30.

Ia., Des Moines—Consistory Cathedral—Scottish Rite Cathedral soon to let contract. About $325,000. Noted Dec. 14.

Ia., Des Moines—Temple—Herman Lodge No. 275, A. F. & A. M., c/o I. W. Harpster, 905 Main St., Grinnell, receiving bids about Jan. 1, 3-story. About $55,000. F. E. Wetherell, 202 Youngerman Bldg., Arch.

Ia., Des Moines—School—Bd. Education making plans 3-story, 34th and College St. About $50,000. Keither & Jones, 610 Youngerman Bldg., Arch. A. L. Comice, 1623 Centre St., Secy. Bd.

Ia., Grinnell—Sunday School—Congregational Church made plans 3-story. About $40,000. Beimer & Herlin, First National Bank Bldg., Marshalltown, Arch.

Ia., Rockwell City—Club Rockwell City Country Club plans.

Buildings (Continued)

Ia., Sioux City—Theater—Orpheum Circuit, care of M. B. Beck, making plans. About $100,000. G. Rapp, Arch.

Ia., Sioux City—Theater—T. S. Martin, 412 Nebraska St. receiving bids Jan. 15. About $100,000. Noted Dec. 14.

Minn., Annandale—School—Bd. Education receiving bids Mar. 1. 2-story, 75x144-ft. About $50,000. G. J. Hoffman & Co., Rochester, Arch. Noted Aug. 24.

Minn., Clara City—High and Grade School—City making plans 2-story, 62x109-ft. Alban & Prins, 347 Endicott Bldg., St. Paul, Arch.

Minn., Cloquet—High School—Bd. Education soon let contract, 3-story, 100x130-ft. About $70,000. Kelly & Williams, Duluth, Arch. Noted Dec. 7.

Minn., Delhi—High and Grade School—Bd. Education making plans 2-story, rein.-con., 60x80 ft. Bids in January. K. T. Snyder, 1133 Plymouth Bldg., Arch.

Minn., Duluth—Zenith Telephone Co. made plans 3-story, rein.-con. building on 1st St. About $60,000. A. J. McCulloch, Gen. Mgr. Noted Oct. 19.

Minn., Eden Prairie—School—Industrial Dist. No. 4, Hennepin County plans. C. E. Hubert, Eden Prairie, Chn. School Bd.

Minn., Fairmont—Office—Water and Light Comn. plans 1-story, 30x52-ft. About $50,000. H. B. Tutle, Clk.

Minn., Hastings—Service Building—State Bd. Control rejected bids, State Asylum. New bids in spring.

Minn., Kellogg—School—Bd. Education receiving bids Mar. 1, 2-story, 85x110-ft. About $40,000. G. J. Hoffman & Co., Rochester, Arch. Noted Oct. 26.

Minn., Lakefield—High School—Bd. Education making plans 2-story, rein.-con. About $75,000. K. T. Snyder, 1133 Plymouth Bldg., Minneapolis, Arch.

Minn., Mankato—Hotel—Commercial Club plans 7-story. About $225,000.

Minn., Mankato—G. J. Hoffman & Co., Rochester, receiving bids about Mar. 1 tuberculosis sanitarium. About $45,000. Noted Oct. 26.

Minn., Minneapolis—Convention Hall—Minneapolis Chapter of American Institute of Architects plans.

Minn., Minneapolis — Library — Coe College plans. About $50,000.

Minn., Minneapolis—University of Minnesota plans Y. M. C. A. building. About $160,000. G. E. Vincent, LL.D., Pres.

Minn., Rochester—Consolidated School—Bd. Education receiving bids Mar. 1, 2-story, brick. About $50,000. J. Hoffman & Co., Rochester, Arch.

Minn., St. Paul—St. Paul House Furnishing Co. plans 50x130-ft. building. About $75,000. J. Levy, Pres.

Kan., Marion—School—City defeated $50,000 bonds to build 3-story school. T. W. Williamson & Co., Topeka, Arch. Noted Oct. 19.

Kan., Neodesha—High School—City making plans 2-story, fireproof. About $85,000. Smith, Rea & Lovitt, Finance Bldg., Kansas City, Mo., Arch. Noted Dec. 14.

Kan., Pratt—Hotel and Theater—R. Calbeck receiving bids in January 3-story. About $40,000. F. G. McCune, Winne Bldg., Wichita, Arch.

Kan., Russell — School — City making plans 2-story. About $40,000. W. T. Schmitt, 1634 West 10th St., Oklahoma, Okla., Arch. Noted Oct. 5.

Kan., Sedan—Court House—Chatauqua County receiving bids Jan. 1. 3-story, brick. About $50,000. G. P. Washington & Son, Ottawa, Arch. Noted Nov. 30.

Kan., Topeka—Auditorium—City to vote in January on $100,000 bonds to build auditorium. Noted June 8.

Kan., Wichita—Theater—J. H. Cooper plans. About $40,000.

Neb., Bayard—Hotel—H. A. Weil and associates, North Platte, purchased site, plans. About $50,000.

Neb., Columbus—Church—Polish Catholic Congregation making plans 1-story, brick and stone. About $50,000. C. Wurdeman, 313½ 13th St., Arch. Noted Dec. 14.

Neb., Fremont—Courthouse—Dodge County receiving bids Jan. 22, 4-story. About $140,000. J. O'Connor, Fremont, County Clk. Noted Dec. 7.

Neb., Hastings—School—Bd. Education made plans. About $125,000. Noted Oct. 26.

Neb., Lincoln—Political and Social Science Buildings—University of Nebraska making preliminary plans 3-story. About $350,000. Coolidge & Hoggdon, Corn Exchange Bank Bldg., Chicago, Arch.

Neb., Omaha—Home—Society American Widows plans. About $50,000 or $75,000.

S. D., Brooklings—High and Grade School—School Bd. making plans. Tyrie & Chapman, 320 Auditorium Bldg., Minneapolis, Minn., Arch.

S. D., Huron—Hotel—Commercial Club plans 5-story. About $100,000

N. D., Fargo—High School—Commercial Club making plans. About $500,000. E. F. Ladd, Pres. Noted Dec. 14

N. D., Kildeer—Hospital—Hospital Association plans. About $50,000. R. Wilcox, Dir.

Wyo., Casper—Lodge—Fraternal Order of Eagles making plans 2-story. About $40,000.

Mont., Billings—Bank—Bank of Montana making plans. A. H. Marble, Cheyenne, Pres.

Mont., Butte—Y. M. C. A. plans building. About $200,000.

Mont., Helena—Theater—Montana Opera House Co. making plans. About $100,000. T. A. Marlow, Arch.

Mont., Lewistown—Knights of Columbus plan building.

Mont., Livingston—Hotel—C. S. Hefferling making plans rebuilding Corwin Hot Springs Hotel, recently destroyed by fire.

Mont., Wilsall—Hotel—F. Landis plans 3-story.

Mo., Joplin—Clubhouse—Joplin Country Club plans between 15th and 20th St. About $50,000.

Mo., Moberly—Labor Temple—Booster Club plans. About $40,000.

Mo., St. Louis—Home—University Club plans 11-story, at Grand Ave. and Washington Blvd. About $500,000.

Ark., Fordyce—High School—School Bd. plans rebuilding, recently destroyed by fire. Loss, $50,000.

Ark., Helena—Station—Illinois Central and Missouri & North Arkansas R.R. making plans. About $40,000. A. S. Baldwin, Chicago, C. Engr. of former and W. C. Galbreath, St. Louis, Ch. Engr. of latter. Noted Oct. 19.

Ark., Texarkana—Church—St. Edward's Catholic Church soon lets contract. About $50,000. Rev. M. J. Enright, Pastor.

Tex., Amarillo—Hotel—Bd. City Development plans. About $200,000. Address P. H. Landergin.

Tex., Austin—Church—University of Texas plans Baptist Church. About $75,000.

Tex., Beaumont—Rotary Club, Chamber of Commerce and Retail Merchants Association plan. About $200,000. Address J. K. Grist, Chn. Hotel Com.

Tex., Belton—Church—Baptist Congregation making plans. About $50,000.

Tex., Brownwood—City Hall—City to vote in January on $110,000 bonds to build city hall.

Tex., Brownwood—High School—City votes Jan. 20 on $110,000 bonds to build high school. Noted Oct. 5.

Tex., El Paso—Court House—County voted $450,000 bonds to build court house. Address County Clk., El Paso. Noted Nov. 16.

Tex., Ft. Worth—Orphans' Home—Masonic Grand Lodge of Texas plans addition. About $100,000.

Tex., Ft. Worth—Dormitory—F. & A. M. plans. About $1,000,000.

Tex., Lubbock—Sanitarium—City made plans 3-story, brick. About $50,000. Noted Dec. 14.

Tex., Orange—City plans municipal building. Address Mayor.

Tex., Refugio—Courthouse—Refugio County voted $75,000 to build. Noted Nov. 2.

Tex., San Angelo Hotel—G. Burnett Co., Waco, made plans 7-story. About $150,000. Noted Nov. 16.

Tex., San Antonio—Asylum—Bd. Southwestern Insane Asylum plans improvements. About $170,000.

Tex., Waxahachie—High School—School Bd. making plans. About $80,000. C. H. Page & Bro., Austin, Arch. Noted Nov. 9.

Okla., Alva—School—High School—City making plans 2-story, brick. About $70,000. Layton & Smith, 701 Majestic Bldg., Oklahoma, Arch. Noted Sept. 21.

Okla., Drumright—Hotel—W. Kahn, Tulsa, plans.

Okla., Oklahoma—Hospital—Wesley Hospital plans addition. About $75,000.

Okla., Tulsa—Hospital—Ross Grosshart, 202 Unity Bldg., plans 3-story, 48x120-ft., brick, stone and rein.-con. About $70,000. D. Eichenfield, 420 1st National Bank Bldg., Arch.

Colo., Breckenridge—School—School Bd. making plans addition.

Colo., Brighton—Church—Presbyterian Congregation plans.

Colo., Denver—Court and Jail—Denver County plans. About $125,000. Address County Clk., Denver.

Colo., Ft. Morgan—Clubhouse—Ft. Morgan lodge of Elks purchased site at Bijou and State St., plans.

Ariz., Flagstaff—A. W. Bikker plans business block to be leased by J. C. Penney Co., 354 West 4th Ave.

Wash., Prosser—Courthouse—County Comrs. soon to vote on $125,000 bonds to build courthouse.

Wash., Spokane—Lodge—B. P. O. E. of Spokane making plans. About $150,000. Noted Dec. 7.

Ore., Enterprise—School—City soon votes on $70,000 bonds to build school.

Ore., Klamath Falls—Assembly Hall and Gymnasium—School Bd. plans.

Ore., Pendleton—Church—Presbyterian Congregation plans. About $30,000 or $40,000.

Calif., Burlingame—Bank—Bank of South San Francisco making plans. About $40,000.

Calif., Los Angeles—Office—M. J. Connell soon lets contract 10-story, 80x154-ft., rein.-con., on Los Angeles St. F. L. Stiff, 1102 Van Nuys Bldg., Arch.

Calif., Los Angeles—Hotel—J. M. Cooper making plans 8-story, 75x103-ft., on 6th St. near Flowen St. W. M. Dodd and W. Richards, 635 Marsh-Strong Bldg., Arch.

Calif., Los Angeles—W. J. Dodd and W. Richards, Arch., Brockman Bldg., Los Angeles, made plans, 14-story, 40x146-ft. department store at 7th and Olive St. J. J. Haggerty, 303 5th Ave. New York, Mgr. Noted Nov. 30.

Calif., Los Angeles—Hospital—County Supervs receiving bids Jan. 8. About $250,000. [illegible] Schulz, 359 Court House, Engr. Noted Sept. 7

Calif., Pomona—Knights and Ladies of Security plan 4 buildings. About $250,000.

Calif., Pomona—Home Telephone Co. made plans 2-story, 50x60-ft. rein.-con. About $50,000. P. Higgs, First National Bank Bldg., Arch.

Calif., Sacramento—Institution—State plans for Feeble Minded Children and Adults. About $350,000.

Calif., San Francisco—Office—American National Bank plans 10-story, at California and Montgomery St.

Calif., Visalia—Visalia Elks Lodge made plans, 3-story. Bids received Jan. 1. About $60,000. Swartz & Swartz, Visalia, Arch. Noted Nov. 23.

N. B., St. Andrews—Hotel—Canadian Pacific Ry., Montreal, making plans addition Algonquin Hotel. About $65,000.

Que., Montreal—School—Roman Catholic School Comn., 87 St. Catherine St., recommends, in St. Marks Parish.

Ont., Ottawa—City Hall—Bd. Control considering plans enlarging. About $300,000.

Ont., Toronto — Hospital and Dispensary Women's Cottage Hospital, 125 Rusholme Rd., Toronto, making plans. About $125,000. Gordon & Helliwell, Confederation Life Bldg., Arch.

Bids in and Contracts Awarded

N. H., Exeter—Gymnasium and Swimming Pool—Phillips Exeter Academy let contract to HOLT FAIRCHILD CO., Old South Bldg., Boston, Mass., $150,000. Noted Nov. 2.

N. H., Peterboro—Town Hall—Town let contract 2-story, 65x106-ft. to J. H. Mendel Co., Manchester. About $65,000. Noted Nov. 30.

Mass., Bridgewater — Dormitory and Service Building—State Bd. Education received low bids State Normal School from J. W. Bishop Co., 683 Atlantic Ave., Boston, $195,425 and $180,366; G. B. Long, Worcester, $195,822 and $183,948. Noted Nov. 30.

Mass., Brooklyn—College of Pharmacy, 70 St. Botolph St., Boston, let contract 3-story, 70x200-ft. building at Brookline and Longwood Ave. to STONE & WEBSTER ENGINEERING CORPORATION, 147 Milk St., Boston.

Mass., Fall River—Mercantile Building—Steiger & Cox, Springfield, let contract 2-story to E. J. PINNEY, 264 Main St., Springfield.

Mass., Marblehead—Lodge—I. O. O. F. let contract addition to ROSCOE & STEELE, Marblehead.

Mass., Milton—School—Milton Academy let contract 3-story to MITCHELL & SUTHERLAND CO., 166 Devonshire St., Boston. Noted Nov. 23.

Mass., Waltham—Theater and Office—Moody St. Trust, care of Henderson & Ross, 30 State St., let contract to BOYD & BERRY, 11 Grampian Way, Dorchester Dist., Boston. About $75,000.

Mass., Worcester—Church—Covenant Congregation let contract 1-story, 56x80-ft. on Hamilton St. to L. O. IRISH, Auburn.

Ct., New Britain—Clubhouse—Shuttle Meadow Club let contract 2½-story, 60x120-ft. to DOHRENWEND BROS. CO.

Ct., Stratford—School—City let contract addition to Franklin St. School, Barnum Terrace to H. WALES LINES CO., Meriden.

Ct., Wethersfield—School—Town let contract 1-story to H. WALES LINES CO., 134 State St., Meriden. About $50,000. Noted Nov. 23.

N. Y., New York—(Bronx)—(Official)—School—Bd. Education received low bid additions P. S. No. 4, Fulton Ave. and East 173d St. from T. A. Clarke Co., 122 Livingston St., Brooklyn, $198,300.

N. Y., Pelham Manor—Church—Huguenot Memorial Forest Congregation let contract 1- and 2-story, to H. J. BROWN & SON, 257 Jefferson Ave., Brooklyn. About $80 000. Noted Apr. 20.

N. Y., Phoenix—Church—First Baptist Congregation let contract rebuilding to D. E. WADSWORTH, Phoenix.

N. Y., Poughkeepsie—Library—Trustees Vassas College let contract 1-story, 65x77-ft. brick and limestone addition to I. S. RUSSELL, 1 Madison Ave., New York. About $60,000.

Buildings (Continued)

N. J., Atlantic City—Hotel—G. W. Carmany let contract alterations and addition to Fredonia Hotel to W. PROCH, Sheen Bldg., Atlantic City. About $50,000. Noted Oct. 19.

N. J., Garfield—Clubhouse—Polish People's Home Club, 1 Monroe St., let contract 3-story, 57x150-ft. to J. TABUER, 9th St., Passaic. About $50,000.

N. J., Ocean City—Hotel and Pier—Headley & Shull, Arch., Guarantee Trust Bldg., let contract to A. CHAMBLEY, 243 South 10th St., Phila., Pa. About $800,000. Noted Oct. 12.

Pa., Carlisle—School—Dickinson School of Law let contract 2-story, to H. A. LACKEY, Carlisle, $41,000. Noted Oct. 26.

Pa., Coudersport—High School—School Dist. let contract 2-story, at Main and Water St. to P. W. FINN, Masonic Bldg., Altoona. About $57,000. Noted Nov. 16.

Pa., Phila.—Office—Midvale Steel Co. let contract 6-story, to F. W. MARK'S CONSTRUCTION CO., 2820 North 21st St., $200,000.

Pa., Reading—Clubhouse—Wyomising Club let contract 4-story, 48x132-ft. to BEARD CONSTRUCTION CO., Berks County Trust Bldg., Reading. About $75,000. Noted Nov. 23.

Md., Baltimore—Theater—McHenry Amusement Co. let contract 1-story to COGGSWELL, Koetlider Co., 405 Park Ave., Baltimore. About $40,000. Noted Aug. 31.

Va., Bon Air—Passenger Station—Southern Railway Co. let contract to W. BEGGS & CO., Spartanburg, S. C.

Va., Norfolk—School—City let contract 2½-story, to J. JOHNSON, 618 Law Bldg., Norfolk. About $100,000.

N. C., Winston—Salem—Theater and Store—Auditorium Co. let contract, rein.-con., to TRAVERS-WOOD CO., Richmond, Va., $100,000. Noted Nov. 30.

Fla., Jacksonville—(Official)—Office—Florida Realty Investment Corp. let contract 2-story, 94x106-ft., rein.-con., at Forsyth and Main St., to SOUTHERN FERRO CONCRETE CO., Equitable Bldg., Atlanta, Ga. About $70,000.

Ohio, East Liverpool—School—Bd. Education let contract to C. H. VORHEES, Nelsonville, $86,980.

Ohio, Ironton—Home—Elks Lodge rejected bids.

Mich., Detroit—Store and Office—S. S. Kresge Co., Kresge Bldg., let contract 9-story, 65x100-ft. at Woodward Ave. and State St. to PORTER BROS., 507 Kresge St., Detroit. Noted May 11.

Mich., Detroit—Office—Peninsular Smelting Co. let contract, at 1321 West Jefferson Ave. to MALOW BROS., Dunn Rd. and Mt. Elliott, Detroit.

Ill., Evanston—Church—Mt. Zion Baptist Congregation let contract 3-story, 60x90-ft. to H. E. McDONALD, 840 Custer St., Evanston. About $60,000.

Ill., Mendota—School—City let contract to C. W. KARR, Clinton, $100,000.

Wis., White Fish Bay—School—City let contract to H. SCHMITT & SON, 621 Jackson St., Milwaukee, $60,000.

Ia., Clinton—Office—Curtis Bros. & Co. let contract to MILER & LADEHOFF, Wilson Bldg., Clinton. About $50,000.

Minn., Mountain Iron—Office—First State Bank let contract 2-story to VIRGINIA BUILDERS SUPPLY CO.

Kan., Wichita—Jail—County Comrs. let contract 6-story, to EBERHARDT CONSTRUCTION CO., Salina, $48, 948. Noted Nov. 23.

Neb., Havelock—High School—Bd. Education let contract 2-story, fireproof and brick to H. F. JONES, Cedar Rapids, Ia. About $75,000. Noted Nov. 23.

Neb., Omaha—School—Bd. let contract Park School to J. D. MARDIS & CO., $120,400.

Neb., Omaha—City received low bid Yates School from A. Beck, $77,901. W. T. Bourke, Secy. Bd. Education. Noted Nov. 23.

Tex., College Station—Auditorium, Etc.—Agricultural and Mechanical College let contract auditorium and experiment station and administration building to LEDBETTER & GREATHOUSE, Austin, $100,000 and $75,000.

Tex., Ft. Worth—Hospital—Johnson & Beall let contract 3-story to BUTCHER & SWEENEY, Ft. Worth. About $40,000.

Tex., Ft. Worth—Office—C. B. Bryant let contract, East 3rd St., to J. D. GRUNDY, Charlotte.

Tex., Houston—Courthouse and Jail—Harris County let contract to N. C. JENSEN, Clark St. Rd., Houston.

Tex., Paris—High School—City let contract 2-story to FOSTER & VARNER, Paris, $85,000. Noted Nov. 23.

Okla., Ardmore—Office—B. A. Simpson let contract 6-story, brick to RUSSELL BROWN CO., Dallas, Tex., $300,000. Noted Dec. 7.

Colo., Pueblo—Auditorium and City Hall—City let contract SEERIE & VARNUM, Denver, $195,742. Noted Nov. 2.

Ore., Astoria—School—School Dist. No. 1 let contract to ASTORIA CONSTRUCTION CO., Astoria. About $61,857. Noted Nov. 30.

Calif., San Diego—Store and Loft—Peters Investment Co. received low bid, 2-story, 100x100-ft. from R. B. Shields, San Diego, $48,309.

Calif., Santa Barbara—Prince Hopkins Institution let contract 3-story, 100x150-ft. rein.-con. academy building to A. H. AVERY, Santa Barbara. About $60,000. Noted Nov. 9.

Que., Montreal—Office—Commercial Realty Co. let contract rein.-con. to C. E. MITCHELL, New Birks Bldg., Montreal. About $50,000.

Ont., Ottawa—Office—Norlite Real Estate Co. let contract to TRUSSED CONCRETE STEEL CO., 23 Jordan St., Toronto, $50,000.

BARGE CANAL, ALBANY, N. Y.

Contract No. 30-A

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., Albany, for Barge Canal work, Contract 30-A, completing Erie Canal between Jacksonburg and Herkimer, from (A) E. Brown Baker, Herkimer; (B) Engineer's Estimate. The item bids were as follows:

	A	B
1 clearing (lump sum)	$100.00	$100.00
93,620 cu.yd. excavation	.95	.90
30,100 cu.yd. forming embankment	.15	.15
68 M ft. b.m. wooden sheet piling	72.00	60.00
9,800 sq.ft. steel sheet piling	.84	.70
270 cu.yd. second-class concrete	7.50	7.50
4,430 cu.yd. wash wall	2.50	2.50
3,500 cu.yd. fourth-class rip-rap	2.40	2.60
Extended totals	$127,483	$122,013

BRIDGE, KANSAS CITY, MO.

71st St.

Bids were received by Bd. Park Comrs. for constructing 71st St. Bridge in Swope Park from (A) HORTON CONCRETE CONSTRUCTION CO., (awarded contract); (B) Concrete Construction Co.; (C) List-Gifford Construction Co.; Winston Bros. Co., $150,210; McMillan Construction Co., $152,294; Peterson Norton Co., $164,648; Gray Construction Co., $171,038; Missouri Valley Bridge and Iron Co., $177,852; Midland Bridge Co., $185,061; Union Building and Construction Co., $224,298. The item bids of the 3 lowest bidders were as follows:

	A	B	C
1,270 cu.yd. conc. in slabs, curbs, and f's'. g'd's	$9.40	$11.00	$13.42
840 cu.yd. conc. in c-g'd's, c-b's., and s'p. g'd's	9.40	11.00	13.42
180 cu.yd. conc. in spandrel columns	9.40	11.00	13.42
680 cu.yd. conc. in arch ribs	9.40	11.00	13.42
1,420 cu.yd. conc. in piers above plinths	9.40	10.00	8.92
2,900 cu.yd. conc. in piers below plinths	9.40	9.60	7.15
960 cu.yd. conc. in pier bases	9.40	9.50	6.90
730 cu.yd. conc. in abutments	9.40	10.00	9.42
100 cu.yd. conc. in end monuments	9.40	12.00	16.00
1,370 lin.ft. conc. handrails	1.50	3.00	2.75
370,000 lb. reinforcing metal ¾-in. or over	.045	.045	.045
260,000 lb. reinforcing metal under ¾-in.	.0475	.0475	.044
2,200 lb. lead sheet for expan. joints	.10	.12	.10
7,000 lb. w.-i. drainage pipes	.05	.06	.05
3,000 lb. c.-i. inlet drops	.05	.05	.05
18,000 lb. expan. plates, name plates, etc	.10	.08	.07
16 lamp posts	15.00	25.00	60.00
1,430 lin.ft. pipe conduits	.20	.25	.40
1,430 lin.ft. cables for lighting systems	.20	.25	.40
3,110 sq.yd. creosoted wood-b'l'k. paving	2.00	2.50	2.50
1,250 sq.yd. macadam paving on appr'ch's	1.00	1.25	1.50
560 lin.ft. conc. curbs on approaches	.40	.40	.40
3,920 cu.yd. dry excavation-pier bases	2.00	1.25	1.90
1,840 cu.yd. wet excavation for pier bases	4.00	1.75	2.75
650 cu.yd. excavation for abutments	2.00	1.25	1.10
4,000 cu.yd. earth embankment	.25	.50	.30
Removal of debris, etc. (lump sum)	10.00	100.00	500.00
Extended totals	$144,943	$149,423	$149,532

* The Seventy-first Street Bridge is to be of rein. con., consisting of 5 open-spandrel arch spans resting on columns founded on soapstone, 2 hollow box abutments resting on the soil, and an earth fill at the east end. The total length of the concrete structure is about 700 ft. and that of the earth fill about 280 ft. The floor of the bridge is on a 5 per cent. grade descending towards the east. It provides a roadway 40 ft. wide in the clear, and 2 walkways each 8 ft. wide in the clear. The roadway on the bridge proper will be paved with creosoted wood blocks, resting on a rein. con. slab, and that on the earth fill with macadam. The walkways on the concrete structure will consist of reinforced concrete slabs with a wearing surface ¾ in. thick. Sidewalks will not be provided on the earth fill at the present time. Concrete handrails will be placed along both sides of the deck, extending for the full length of the concrete structure.

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.

Elevated Railway Work

Bids were received by Pub. Ser. Comn. for elevated railway work, connecting link between New Utrecht Ave. (West End Line) and Culver Rapid Transit R.R., Sect. 1-A, Route 49 from (A) T. DWYER, Broadway and 215th St. (awarded contract); (B) Post & McCord; (C) A. L. Guidone & Son, Inc.; Oscar Daniels Co., $46,855; Cullen Contractnig Co., Inc., $47,000; B. Turecamo Contracting Co., Inc., $51,445; Jobson-Gifford Co., $53,073; Kaufman & Garcey, $54,642; H. E. Ditmars, $62,749. The item bids of the 3 lowest bidders were as follows:

	A	B	C
3,500 cu.yd. earth excavation above M.H.W.	$1.50	$1.70	$1.10
300 cu.yd. railroad embankment in place	1.50	1.10	.90
250 sq.yd. sodding slopes of railroad cut	.50	.55	1.35
1,250 cu.yd. earth excavation above M.H.W. sewers	1.50	1.90	1.75
1,430 cu.yd. concrete masonry in place	10.00	9.30	10.00
300 sq.yd. tooling concrete surfaces	1.00	1.10	1.00
920 lin.ft. reinforced concrete fence	4.00	3.80	4.50
10 cu.yd. rubble stone masonry	10.00	12.00	8.00
10 cu.yd. dry rubble masonry	8.00	10.00	6.50
10 cu.yd. brick masonry	15.00	25.00	15.00
10 cu.yd. removal of old masonry	5.00	22.00	4.00
5 bbl. grout of portland cement	4.00	2.00	15.00
100 lin.ft. timber piles in place	1.00	.50	.30
1 m.b.m. timber foundations	100.00	75.00	80.00
40 cu.yd. broken stone or gravel in place	3.00	2.70	3.00
50 sq.yd. waterproofing, 3-ply	1.00	1.30	2.00
700 sq.yd. waterproofing, without fabric	.50	.70	.50
1,030 lin.ft. vitrified drain pipe, 8-in	1.50	.75	.40
180 lin.ft. vitrified drain pipe, 4-in	1.00	.30	.25
320 lin.ft. c.-i. pipe and fittings 4 in. extra heavy	1.00	1.35	.50
2,820 duct ft. tunnel ducts	.15	.17	.35
24,000 duct ft. railroad ducts	.20	.17	.10
3,300 duct ft., 3½-in. w.i. or steel pipe R.R. ducts	.20	.70	.60
1 ton riveted steel	200.00	150.00	160.00
1 ton steel beams and shapes	200.00	150.00	120.00
46 ton steel rods and bars	80.00	110.00	80.00
1 ton miscellaneous iron castings	100.00	75.00	90.00
1 ton miscellaneous iron castings, sewers	100.00	75.00	90.00
40 sq.yd. street surface restored	2.00	1.10	4.00
80 lin.ft. vitrified pipe sewer, 12-in	3.00	1.60	.80
160 lin.ft. vitrified pipe sewer, 18-in	4.00	3.20	2.00
10 ton cast-iron sewer pipe, straight	60.00	90.00	70.00
1 ton cast-iron sewer pipe, special castings	120.00	100.00	100.00
Maintaining Culver line surface tracks (lump sum)	200.00	400.00	5,500.00
25 lin.ft. water pipe, 6-in	2.00	1.30	1.50
25 lin.ft. water pipe, 20-in	4.00	4.00	6.00
25 lin.ft. water pipe, 30-in	6.00	6.00	13.00
25 lin.ft. water pipe, 36-in	8.00	7.50	23.00
25 lin.ft. gas pipe, 4-in	2.00	1.00	.60
50 lin.ft. gas pipe, 8-in	4.00	2.00	1.10
25 lin.ft. gas pipe, 16-in	6.00	3.00	2.50
1 ton new c.-i. hub and spigot, straight pipe	60.00	90.00	90.00
1 ton new c.-i. hub and spigot, special castings	120.00	100.00	100.00
Extended totals	$42,268	$43,987	$44,853

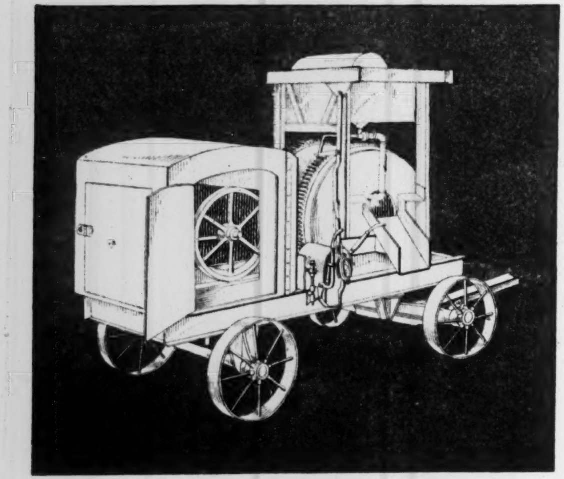
TRADE PUBLICATIONS

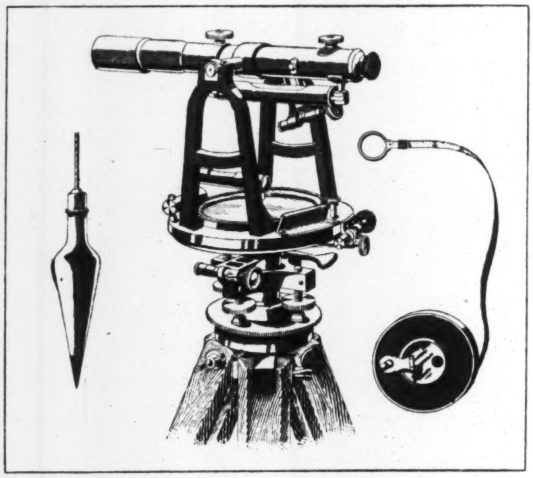
Osgood "18" Revolving Shovel; ½- to ¾-yd. dipper. The Osgood Co., Marion, Ohio. Circular No. 18; pp. 16; 8½x11 in.; illustrated. Showing the application of this shovel to road grading, cellar excavating, railroad work, loading and unloading cars, dredging, etc. How shovel lifts itself to allow placing of planking. Lifting pieces of rock chained to the dipper.

Osgood "18" Revolving Steam Shovel. The Osgood Co., Marion, Ohio. Circular No. 14; pp. 12; 8½x11 in.; illustrated. Descriptive of this shovel as applied to trench excavating, using a narrow bucket ½- to ¾-yd.

Concrete Building Construction. American Concrete-Steel Co., Essex Bldg., Newark N. J. Bulletin No. 1; pp. 12; 8½x11 in. This contains illustrations of various buildings erected by this company.

See How the Ormay Process Brings Out the Details





SMALL but important points of mechanical subjects which are ordinarily lost in halftone illustrations come out with startling clearness in Ormay Process cuts.

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ENGRAVING DEPARTMENT

HILL PUBLISHING COMPANY

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SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until Jan. 10, 1917.

Road Work

Freehold, N. J.

Sealed bids will be received by the Board of Chosen Freeholders of the County of Monmouth for the reconstruction of the Keyport-Red Bank road (1st section), in the townships of Raritan and Holmdel, in the County of Monmouth, with a Warrenite surface upon a concrete foundation; estimated amount of surface pavement required is 24,381 square yards, of foundation 24,381 square yards; and opened and read in public at the office of the Board of Chosen Freeholders, Court House, Freehold, N. J., on January 10th, 1917, at 11 a.m.

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by George D. Cooper, County Engineer, and approved by the State Commissioner of Public Roads, have been filed in the office of said engineer at 60 Broad Street, Red Bank, N. J., and of said Commissioner at the State House, Trenton, and may be inspected by prospective bidders during business hours. Bids must be on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of the bidder and the work on the outside, addressed to C. E. Close, Clerk of the Board of Freeholders, and must be accompanied by a certified check or cash for a sum not less than $1,000.00, and be delivered at the place and on the hour above named. The standard proposal form is atached to the specifications, copies of which will be furnished on application to engineer.

By order of the Board of Chosen Freeholders of the County of Monmouth.

C. E. CLOSE, Clerk.
JOHN M. CORLIES, Director.

⁂

Bids received until June 1, 1917.

Storm Water Pumping Plant

Corporation of Calcutta, India.

Tenders are invited in duplicate for Storm Water Pumping Plant and will be received by the Deputy Chairman of the Corporation up to 2 P.M. on Friday, the 1st June, 1917, when they will be opened in the presence of such tenderers as may be present. Each tender in duplicate must be enclosed in a sealed cover and superscribed "Tender for Storm Water Pumping Plant." Further particulars may be had by applying to the Chief Engineer, Municipal Office, Calcutta. Specifications, with site drawings, contract agreement, tender form and rules with regard to tenders, may be obtained from the office of the "Indian and Eastern Engineer," 50, Fenchurch Street, London, England (or at Calcutta from the Secretary to the Corporation), on payment of Ten Shillings for each combined copy. Tenderers must abide by the Corporation rules in regard to tenders. Tenders must hold good for at least two months from the date of opening of the same.

Central Municipal Office,
The 23rd October, 1916.

C. C. CHATTERJEE,
Secretary to the Corporation.

Bids received until Jan. 11, 1917.

Sewer Construction

OFFICIAL NOTICE NO. 21.
PUBLISHED BY AUTHORITY OF THE SEWERAGE COMMISSION OF THE CITY OF MILWAUKEE.

Milwaukee, Wis.

Sealed proposals for the construction of extension to the Intercepting Sewer System for the City of Milwaukee, Wisconsin, will be received by the Sewerage Commission of said city at its offices in the City Hall until 2:00 P.M., the 11th day of January, A.D. 1917, at which time and place during the session of said Commission the proposals will be publicly opened and read.

The work to be done embraces the building of the following work:

13,551 lineal feet 72-inch concrete sewer in tunnel.

66 lineal feet 30-inch concrete sewer in open cutting.

511 lineal feet 12-inch terra cotta pipe sewer in open cutting.

660 vertical feet of standard manholes.

150 vertical feet of drop manholes.

19 manhole frames and covers.

Together with all manholes and other appurtenances.

The time allowed for the completion of this contract shall be eighteen (18) months from the date of the engineer's notice to begin work.

The liquidated damages for not completing the work within the time above stated shall, for each day in excess thereof, be an amount equal to one-half of one percentum of the aggregate cost of the work embraced in the contract.

Each proposal submitted must be accompanied by a cash deposit of, or, in lieu thereof, by a certified check drawn upon a National or State Bank or Trust Company, and to the order of the "Sewerage Commission of the City of Milwaukee" to the amount of sixty thousand dollars ($60,000.00).

All cash deposits or certified checks deposited by bidders to whom the contract is not awarded will be returned upon application to the Secretary of the Sewerage Commission after the contract has been awarded, or after the rejection of all bids. The cash deposit or certified check which has been deposited by the successful bidder will be returned to him as soon as the contract is properly executed and approved by the City Attorney and Sewerage Commission.

Specifications and blank forms of proposals can be obtained, and detailed plans examined, at the office of the Sewerage Commission in the City Hall, and a full set of plans will be sent to any contractor upon receipt of five dollars ($5.00), this sum to be returned upon surrender of the plans in good condition.

The Sewerage Commission of the City of Milwaukee reserves the right to reject any and all bids submitted.

J. H. FOWLES, Secretary.
Countersigned:
A. P. PUELICHER, Deputy Comptroller.

⁂

PROPOSAL FOR BULKHEAD. U. S. Engineer Office, Customhouse, New Orleans, La.—Sealed proposals will be received here until 11 A.M., Jan. 16, 1917, and then opened for bulkhead at Southwest Pass, Mississippi River. Information on application.

Bids received until Jan. 10, 1917.

Bridge Superstructure

DEPARTMENT OF PUBLIC WORKS

Chicago, Dec. 13th, 1916.

Sealed Proposals will be received by the City of Chicago until 11 A.M., Wednesday, January 10th, 1917, at Room 406, City Hall, for furnishing, constructing and erecting superstructure for a Strauss Direct Lift Bridge over the South Branch of the Chicago River, at West 12th Street, according to Plans and Specifications on file in the office of the Department of Public Works of said City, Room 406, City Hall.

Proposals must be made out upon blanks furnished at said office, and be addressed to said Department, indorsed "Proposals for Superstructure — 12th Street Bridge," and be accompanied with Ten Thousand ($10,000.00) Dollars in money or a certified check for the same amount on some responsible Bank located and doing business in the City of Chicago and made payable to the order of the Commissioner of Public Works.

The Commissioner of Public Works reserves the right to reject any or all bids.

A cash deposit of $50.00 will be required for the return of plans and specifications.

No proposal will be considered unless the party offering it shall furnish evidence satisfactory to the Commissioner of Public Works of his ability, and that he has the necessary facilities together with sufficient pecuniary resources to fulfill the conditions of the Contract and Specifications, provided such contract should be awarded to him.

Companies or firms bidding will give the individual names as well as the name of the firm with their address.

W. R. MOORHOUSE,
Commisioner of Public Works.
By WM. BURKHARDT,
Deputy Commissioner.

⁂

Bids received until Jan. 16, 1917.

Street Paving

Wilkes-Barre, Pa.

Sealed Proposals will be received until Tuesday, January 16, 1917, at 12 o'clock Noon, for paving Nineteen (19) streets in the City of Wilkes-Barre, Pennsylvania. 45,000 square yards of sheet asphalt, 4,400 square yards of brick and 35,500 lineal feet of stone or concrete curbing. Write B. K. Finch, City Engineer, for specifications. Address bids to Fred H. Gates, City Clerk.

M. C. MURRAY.
Superintendent of Department of Streets and Public Improvements.

⁂

PROPOSALS FOR AIR COMPRESSORS ETC.—U. S. Engineer Office, Pittsburgh, Penn.—Sealed proposals for furnishing and delivering two air compressors and one water turbine complete, with gear drive, at Lock No. 3, Monongahela River, will be received at this office until 12 M. (Eastern Standard Time), December 29, 1916, and then publicly opened. Information on application.

LOCK AND GUIDE WALLS—U. S. Engineer Office, Wheeling, W. Va.—Sealed proposals will be received here until 11 a.m. (Eastern time), December 30, 1916, and then opened, for constructing lock and guide walls for Dams Nos. 23 and 25, Ohio River. Information on application. Bids received until Dec. 27, 1916

SPECIAL OPPORTUNITIES SECTION

Miscellaneous

Bids received until Jan. 9, 1917.

Canal Improvements

STATE OF NEW YORK
OFFICE OF SUPERINTENDENT OF PUBLIC WORKS.

Albany, Dec. 21, 1916.

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon of Tuesday, January 9th, 1917, at which place and hour they will be publicly opened and read, for improving the New York State canals pursuant to the provisions of Chapter 147 of the Laws of 1903, and of the acts amendatory thereof and supplementary thereto, and Chapter 570 of the Laws of 1915, as follows:

CONTRACT NO. 155.
Erie Canal—Section 2.

For furnishing and installing seven hoists for the operation of the bulkhead gates in the north end of the Vischer Ferry dam; to be completed within two months after the date of the execution of the contract. Estimated cost, $9,998.00. The plans consist of five sheets, numbered 1 to 5 inclusive.

Plans may be seen and detailed specifications, engineer's estimate of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y.; at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y.; at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., and at the canal office, Spaulding's Exchange, Buffalo, N. Y.

Copies of detailed plans or drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5 per cent.) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of the contract shall be in such sum as shall be fixed by the Superintendent of Public Works, which sum shall not be less than twenty per centum (20 per cent.) of the estimated cost of the work according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds, co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the state for doing the work and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned the interests of the State will be enhanced thereby.

W. W. WOTHERSPOON,
Superintendent of Public Works.

⁂

Bids received until Jan. 9, 1917.

Building Construction

Cobleskill, N. Y.

Sealed proposals for Construction, Heating, Plumbing and Drainage and Electric Work for Dairy Building at Schoharie State School of Agriculture, Cobleskill, N. Y., will be received by Hon. D. D. Frisbie, President, Board of Trustees, Agricultural Hall, State and Lodge Streets, Albany, N. Y., until 2:30 o'clock P.M. on Tuesday, January 9, 1917, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent. (5 per cent.) of the amount of proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent. (50 per cent.) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of specifications Nos. 2563, 2648, 2649 and 2650. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the Schoharie State School of Agriculture, Cobleskill, N. Y.; at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

Dated December 18, 1916.

Employment Department

ANSWERS addressed to us at 10th Ave. and 36th St., New York, or 1144 Monadnock Block, Chicago, will be forwarded without charge (excepting circulars or similar literature).

IMPORTANT: Original letters of recommendation or other papers of value should not be enclosed to unknown correspondents—send copies. Advertisers' names will not be furnished under any circumstances. Copy received until 10 a.m. Wednesday for Thursday's issue.

Positions Open

EXPERIENCED RAILROAD DRAFTSMAN wanted; one familiar with track layouts, reinforced-concrete masonry, etc.; state age, education, experience, references, least salary considered and inclose small sample of work; college graduate preferred. Address R. P. Forsberg, assistant engineer, P. & L. E. R.R., Pittsburgh, Penn.

DETAILERS AND CHECKERS wanted on structural steel work. Apply in person to Hedden Iron Construction Co., West Elizabeth, N. J.

SEVERAL FIRST-CLASS DRAFTSMEN wanted on structural steel and bridge work; permanent positions and excellent opportunity for advancement for men who show ability above the average; in replying state age, experience, salary expected and when available. Box 97, Buffalo, N. Y.

EXPERIENCED RAILROAD DRAFTSMAN wanted for general field and office work, for railroad near Cumberland, Md.; must be a good letterer; state experience and salary desired. Address P. O. Box 604, Cumberland, Md.

Employment Agencies

The Agencies advertising here agree to refund any registration fee on demand any time within the first six months when no position is secured.

H. H. HARRISON CO., Association Bldg., Chicago, registers high-grade manufacturing executives, technical, semi-technical and commercial men. Forward complete data of requirements for immediate attention.

GENERAL ENGINEERING AGENCY, Pittsburgh, Penn., requires tracers, draftsmen, designers; Eastern and Western vacancies; no advance charges; daily notices until placed.

LABOR BUREAUS

EMPIRE LABOR AGENCY, 93 Mulberry St. (Tel. 1745 Franklin), New York Laborers and mechanics, furnished for all kinds of construction works, free of any fee, provided transportation is advanced. Also commissary conducted.

Correspondent

THE UNDERSIGNED plans and conducts correspondence for positions in technical, manufacturing and professional lines for $2,500 to $15,000 men exclusively. Complete privacy assured. No commission charged—only service fee and postage. Send name and address only, in confidence, for prefatory details. R. W. Bixby (Established 1910), T1 Niagara Square, Buffalo, N. Y.

Positions Wanted

Civil Engineers

TECHNICAL GRADUATE, three years' field and office experience, desires change with opportunity. PW855—Eng. News.

SPECIAL OPPORTUNITIES SECTION

Miscellaneous

ENGINEER wishes permanent position, preferably with bond house or trust company, to investigate and report on Western construction propositions, work under construction, supervision or preliminary investigations; technical graduate, Asso. M. A. Soc. C. E., age 33, married; 12 years' experience in responsible charge of engineering construction, steam and electric railroads, large bridges, reinforced concrete; a man with splendid, clean record; now employed; familiar with Western work and conditions; salary to start, $3,000. PW806—Eng. News, Chicago.

CIVIL ENGINEER, graduate Massachusetts Institute of Technology, 1905, desires responsible position in New York City; experienced in railroad, tunnel and highway work; for the last four years has been a contractor and completed over half-million dollars' worth of work; minimum salary, $4,000. PW825—Eng. News.

CIVIL ENGINEER, university graduate, 23, three years' experience, building, railroad, subway construction, now employed, desires position where merit and diligence will count; location immaterial. PW841—Eng. News.

GRADUATE CIVIL ENGINEER desires position as executive, engineer or superintendent of construction with industrial corporation; 11 years' experience engineering and construction of plants. PW 847—Eng. News.

CIVIL ENGINEER—Graduate civil engineer, Rensselaer Polytechnic Institute, two years heavy concrete construction, three years pavements, sewers, etc., and two years in general contracting business. PW849—Eng. News.

CIVIL ENGINEER, technical graduate; four years' experience on construction; builder or contractor preferred; anywhere. PW852—Eng. News.

CIVIL ENGINEER, technical education; nine years' experience structural, municipal, irrigation engineering; specialist reinforced-concrete design and construction; married; location preferred, Western States, Hawaii, South America; employed. Box 1271, Tucson, Ariz.

GRADUATE CIVIL ENGINEER, 31, with wide experience in designing, estimating and superintendent reinforced concrete and all types of buildings, factories, warehouses, power houses, heavy construction work, piling, etc., open for engagement; Eastern interview; state salary and nature of work. PW850—Eng. News.

Bridge and Structural

STRUCTURAL STEEL DESIGNER AND ESTIMATOR, technical graduate, eleven years' experience field, shop and office, surveying, detailing, estimating, selling, designing, buildings and bridges. PW 835—Eng. News.

Answering "Want" Ads:

Answers to advertisements on the Want pages should always be addressed to the box number given in the advertisement like this:

P1001
c/o Engineering News,
10th Ave. at 36th St.,
N. Y. City

or

P1001
c/o Engineering News,
1144 Monadnock Blk.
Chicago, Ill.

Letters that do not give the advertisers' box number are subject to delay in forwarding.

RATES

UNDISPLAYED

"Positions Wanted," 3 cents a word, minimum charge 50 cents an insertion, payable in advance.

"Positions Open" and all other undisplayed Want and For Sale advertisements, 5 cents a word, minimum charge $1 an insertion.

(When replies are to be received in our care, allow four words for the box address.)

DISPLAYED

1 inch one time—$2.00. Rates for larger spaces and longer terms furnished on request. Advertisements for bids (Proposals) $2.40 an inch.

STRUCTURAL ENGINEER, technical graduate; 12 years' experience, field, office, inspection, designing, chief draftsman and assistant chief engineer; executive ability; first-class references. PW854—Eng. News.

STRUCTURAL ENGINEER, technical graduate, age 35, 14 years' experience in detailing and designing structural steel and reinforced concrete, now holding responsible position, desires change. PW 844—Eng. News.

STRUCTURAL STEEL ENGINEER and salesman, 17 years selling, estimating, designing, checking, desires position as sales engineer or office engineer. PW845—Eng. News.

Draftsmen

DRAFTSMAN (civil engineering) and instrumentman, best references, married, wants position in Washington, Oregon, Idaho, Montana or California. Write P.O. Box 465, Seattle, Wash.

Superintendents

SUPERINTENDENT of construction; first-class executive, broad experience; difficult foundations, locks, dams, bridges, building and industrial plant construction; concrete a specialty. PW1,001—Eng. News.

BRIDGE AND STRUCTURAL SHOP SUPERINTENDENT of ten years' experience wants situation. PW786—Eng. News.

SUPERINTENDENT OR MANAGER—American, age 42, technical education, long experience in building construction as contractor, superintendent, designer, estimator, etc., wishes to connect with parties contemplating extensive construction work; references furnished; liberal salary expected; available Jan. 1. PW827—Eng. News.

ASSISTANT BUILDING SUPERINTENDENT by technical graduate with six years' experience on construction, estimates and surveys. PW848—Eng. News.

Miscellaneous

INSTRUCTOR—Graduate civil engineer, two years' experience, wants position as instructor in a university; location immaterial; will furnish A-1 references. PW810—Eng. News.

FACTORY ARCHITECT—A practical man of wide experience, good executive, desires permanent connection with manufacturing concern; salary $3,000. PW 851—Eng. News.

FOREMAN—All-round man on concrete construction and form work wishes position. W. H. Winfield, 228 West 149th St., New York.

GOOD LETTERERS WANTED

Preferred everywhere—the man proficient in my system, the "Engineering News" style of lettering. Taught by mail only. Results guaranteed.

C. W. Reinhardt
Arlington, New Jersey

Freehand Lettering

AMERICAN-ITALIAN EXCHANGE

SPECIALISTS IN SUPPLYING LABOR

Commissary Privileges Optional

Established 1900 **Best References**
Tel. 527 Spring **49-51 Prince St., N. Y. City**

STRUCTURAL DRAFTING

A new correspondence course of instruction and work leading up to actual (paid) experience.

STRUCTURAL STEEL DESIGNING

A complete course of instruction and work reproducing all the conditions of actual experience. By mail only.

REINFORCED CONCRETE ENGINEERING

In its fourth year of successful operation. This course has established a reputation among engineers that is not equalled by any similar correspondence course on this subject.

M1000—Engineering News

Wanted

EXPERT will prepare plans and details of reinforced-concrete structures at very reasonable rates. Leer, 632 Filmore Pl., West New York, N. J.

Agents and Salesmen

ASSISTANT TO SALES MANAGER—Position as assistant to sales manager or as advertising manager wanted by mechanical engineer; several years' experience all branches of publicity in mining, contracting and power-plant fields; little actual selling experience; resourceful as writer and correspondent; tactful; used to responsibility and working under pressure; salary about $3,000. W843—Eng. News.

TECHNICAL GRADUATE, age 27, five years' experience designing and detailing steel and reinforced concrete for buildings, bridges, etc.; also some sales experience; desires connection with sales engineering force of concern where experience can be utilized. W846—Eng. News.

Business Opportunities

UNEQUALED OPPORTUNITY—Invention of important use needed for every family; patent is to be sold or given for license first on the market. Apply to V. Montalto, 330 East Third St., South Bethlehem, Penn.

ESTABLISHED Manufacturers Agents to sell high-grade concrete floor specialty. Advertised line. State age and lines now handling.
W 842—Eng. News

Newman Clock Company

Solicits watchclock repairs. Work correctly and promptly done. Dials at lowest prices.

178 Fulton St., New York
565 W. Washington Blvd., Chicago

SPECIAL OPPORTUNITIES SECTION

Second Hand Equipment

FOR SALE

Tug Boat—

61x14x6

Two Deck Lighters—

90x30x10

Lewter F. Hobbs, Norfolk, Virginia

WANTED

Contractors' plants and equipment bought for cash.

Pipe & Contractors Supply Co.
3 Dover Street - New York City

WANTED

STEEL PILING

All makes, widths, lengths. Give lowest price and full particulars of any Piling that you have to dispose of.

W 745—Eng. News, Chicago

WANTED—One Second-Hand

DREDGE

complete. About 35x60 ft. Must be in good condition. Address:

The Edward Balf Co., Hartford, Conn.

FOR SALE—One Browning 1 yd.

Orange Peel Bucket

practically new.

PENNSYLVANIA WATER & POWER CO.,
1611 Lexington St. Bldg. Baltimore, Md.

Steel Sheet Piling

400 pieces 9 in. 16 lb. U. S. 18 ft. long.
200 pieces 12½ in. 38 lb. U. S. 30 ft. long.
400 pieces 14 in. Lackawanna 35 ft.long]
594 Pieces 14 in. Lackawanna 30 ft.long
128 pieces 14 in. Lackawanna 20 ft.long
291 pieces 12¾ in. Lackawanna, 20 ft. long.
1—No. 1 Vulcan Hammer with McDermid base.
1—No. 3 Vulcan Hammer.

GRANVILLE SUPPLY CO.,
St. Louis, Mo.

FOR SALE

Locomotive Crane

20-25 ton McMYLER, standard gauge, 8-wheel, double drums, for operating bucket, 50 ft. boom, outriggers, extra heavily built, immediate shipment.

DALLETT & COMPANY,
413 Harrison Bldg., Philadelphia

RATES:

1 inch— $2.00
4 inches— 1.90 an inch

(The above rate applies to a 4-inch space in one issue, a 2-inch space in two issues, or a 1-inch space in four issues. The larger spaces following may be used up in a similar way.)

8 inches—$1.80 an inch
15 inches— 1.70 an inch
27 inches— 1.60 an inch
100 inches— 1.50 an inch

WANTED

Koppel or similar V-shaped two-way

DUMP CARS

two yard capacity, 36 in. gauge.

Morris County Crushed Stone Co.
Morristown, N. J.

WANTED

Steubner, self-righting, tip-over

BUCKETS

½ to 2 yards capacity

W 752—ENGINEERING NEWS

HOISTS

Compressors - Boilers - Mixers
Derricks - Cableways

For Sale or Lease

HOISTING ENGINE SALES CO.
Grand Central Station, New York

FOR SALE

SECOND HAND MACHINERY
at Rockford, Illinois

One—70-ft. Stiff leg Derrick; American fittings; trussed boom; fine condition; one year old.
One—7½x10 Flory Hoisting Engine, D.C., D.D.
One—40 H.P. Loco. type Boiler; one year old.
One—50 H.P. Loco. type Boiler; six months old.
Two—1½ yd. drop bottom Monarch Concrete Buckets.
Four—1½-yd. Tip Concrete Buckets.
One—Davis-Bournonville Acetylene Cutting and Welding Machine.
One—Standard Push Car.
One—No. 2 Vulcan Steam Hammer; McDermid base; nine months light usage.
One—No. 7 McKiernan-Terry Steam Hammer; one year light usage.
One—No. 44 Koehring one yard Concrete Mixer with steam engine; latest model; mixed 1,800 yds. concrete; fine condition.
One—No. 3 Emerson Pump; fine condition.
One—No. 6 American Centrifugal Pump; hose and valve.
One—Blacksmith Outfit.
214 pieces ½x14 in. Lackawanna Arched Web Steel Piling, 25 ft. long; eight fabricated corners for same, 25 ft. long.
Two—pieces same piling, 15 ft. long.
Four—pieces same piling; 20 ft. long; all in first class condition.

H. W. NELSON COMPANY,
210 S. La Salle St., Chicago, Ill.
'Phone, Wabash 5775

FOR SALE

January 9, 1917, one 10-in. Kingsford

Centrifugal Dredging Pump

500 ft. 10 in. steel pipe; ten 10 in. x 30 in Rubber Dredging Sleeves and one Manganese Runner. Apparatus purchased three years ago but never used. Excellent condition. Sealed bids to **Commissioner of Purchases and Supplies, Toledo, O.,** with certified check for 5% of bid.

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this advertisement

might be your own and get you the attention of other readers of Engineering News. They number over 20,000.

Have you anything to sell them?

LOCOMOTIVE CRANES

1—15-ton, 8-wheel Browning.
1—15-ton, 4-wheel McMyler.

BOILERS

5—100-hp. Economic, butt strapped. Comparatively new. A-1 condition.

Herbert Givin Co., 30 Church St., New York

BRIDGES

Highway drawbridge for sale, for delivery in spring of 1916. Through span 176-ft. swing bridge, center support, 20-ft. clear roadway, with one 4-ft. sidewalk; steel trusses and floor beams with wooden stringers and floor plank; designed to carry one 40-ton car on one span; electric operation; built in spring of 1915.

For further information apply to

Holbrook, Cabot & Rollins Corpn.
6 Beacon St., Boston, Mass.

If

you own any idle contractors' equipment—

If you want to sell it—

If you use this space to advertise it—

Then

Engineering News readers will have the opportunity of buying it from you.

SPECIAL OPPORTUNITIES SECTION

Second Hand Equipment

ELECTRIC MOTORS

The largest stock of NEW Westinghouse and General Electric MOTORS in United States. Sizes from ½ to 100 H.P. All brand new in original crates. WRITE OR WIRE us for complete list.

HARRIS PUMP & SUPPLY CO.
320 SECOND AVENUE - - - PITTSBURGH, PA.

USED
TRANSITS AND LEVELS
ALL MAKES
W. J. BUFF, 50 Church St., N. Y. City

We Buy Used Engineering Instruments

What have you to offer?

WILLIAMS, BROWN & EARLE, INC.
918 Chestnut St. - - Philadelphia

AT ONE-THIRD COST
Smith 2½ yd., Cushing type, orange peel
BUCKET
new, has never been used. Inspection at
J. S. Mundy Hoisting Engine Co.
Newark, N. J.

For Sale—2 First-Class 60-ton standard gauge six-wheel
Switcher Locomotives
Thoroughly MCB and will pass any inspection.
THE FRED R. JONES CO.
City Hall Sq. Bldg. - Chicago, Ill.

WANTED
Transits and Levels
Best cash prices paid.
THE ENGINEERING AGENCY, Inc.
Dealers in new and used engineering instruments.
Monadnock Block, Chicago

AIR COMPRESSOR
FOR SALE

Capacity 310 cu.ft., belt driven; complete with 50 H.P. General Electric Motor, 220 v., D.C. and air receiver.

HUBBARD & FLOYD,
90 West Street, New York City

FOR SALE—2 Keystone
EXCAVATORS
10-ton Kelly-Springfield
GASOLINE ROLLER
Mixers, Crushers, Boilers, etc.
KNAPP MACHINERY SUPPLY CO.
122 Liberty St. New York City

FOR SALE—Type "O" Thew
STEAM SHOVEL
high number, Mass boiler, practically good as new.
W. I. SKELETON BUILDING
72 ft. x 42 ft., 25 ft. columns, 18 ft. apart, 2 story.
LOCOMOTIVE CRANES
from two to forty tons.
DALLETT & COMPANY,
413 Harrison Bldg. Phila., Pa.

IMMEDIATE SHIPMENT—12
20 in. I-BEAMS
30 ft. long, tied in the center, in pairs, like new. Also all sections of "T" rail.

M. K. FRANK, Frick Bldg., Pittsburgh, Pa.

FOR SALE
Thew "O"
STEAM SHOVEL
Thew "A-1" Steam Shovel.
JAS. S. BRADEN
26 Cortlandt Street New York City

35-TON STEEL DERRICK
Stiff leg, 125-ft. boom, bull wheel.
LOCOMOTIVE CRANES
1 each—Ohio, McMyler, Exeter.
REVOLVING STEAM SHOVEL
½—¾-yd. traction, cast steel.
TITAN EQUIPMENT CO.
30 Church St., N. Y. City (Cort. 1111)

FOR SALE—10x16
Vulcan Locomotive
(36-in. Gauge). Shop Number over 1,700. Like new. Bargain $1,400.
The New York Purchasing Agency, Inc.
76 Pine Street - - New York City

ROLLERS FOR SALE

Bargain in a practically new ten ton roller, and in a six ton roller. Contractor going out of business. Right prices for quick sale.

FS 743—ENGINEERING NEWS.

Chicago House Wrecking Co.

Offer these and many other snaps. Available at once, for quick shipment.

1—2½-yard 70-ton Bucyrus Steam Shovel.
1—3-ton McIler standard gauge 8-wheel Locomotive Crane; self-propelling 50-ft. boom.
2—Baldwin 8-wheel Locomotives. Cylinder 15-in. diameter; 18-in. stroke; 36-in. gauge; complete with tender.
1—10x12 Flory Hoist; 3 drums; double cylinder; complete with 2 direct-slewing drums; main drums are 18-in. diameter, 31 in. between and 12-flanges. Capacity 70 tons.
1—Lidgerwood 3-drum Hoist with 8¼x10-in. double cylinder engine; with 36-in. diameter and 4-ft. boiler drums, 14-in. diameter, 22 in. between flanges and 7-in. flanges.
1—Strawdsburg 3-dum 8¼-in. x 10-in. double-cylinder hoisting engine, complete with slewing drums; drums are 16-in. diameter and 28 in. between flanges; 7-in. flanges.
1—Smith ¾-yard Portable Batch Concrete Mixer connected to a 7x8 Mansfield steam engine with a 30x7½-ft. boiler; outset mounted to an 8-in. stand on "I" beams; tilting lever discharge. 18—14-ft. lengths of 26-in. galvanized perforated screening; $\frac{3}{32}$ holes, 12-gauge material with flanges on each end.

20 miles of 20-in. spiral riveted steel pipe; standard lengths; asphalt coated, baked on; Abendroth & Root make. Root bolted wrought-steel joints. This pipe was just secured by us in our purchase of a complete water-works in operation less than 30 days.

3,500 sections of steel pipe, made up for an export order but never shipped. All sizes from 12-in. to 42-in. diameter in 8-ft., 16-ft., 24-ft., 32-ft. and 40-ft. sections. Waterproofed corked seams. Just the thing for piping, culverts, smokestacks, etc.

Western and Oliver 12-yard all-steel either side dump cars. We have a large number on hand for rent or sale.

6—18-cu.ft. all-steel "V"-shaped dump cars fitted for 20-gauge track, 12-in. wheels.

10,000 standard iron body valves—float valves, foot valves, check valves, globe valves, gate valves, angle valves, cross valves—made by Crane Co., Kelly & Jones and Chapman Valve Co. Good condition—never in use. Priced at 75% off standard list.

Complete Railroad consisting of 50 miles 30-lb. rails, car trucks, hand cars, logging cars, frogs, switches, jacks, track tools and all equipment.

What can you use? Name your wants or ask for complete list now.

Complete 160-page buyers' guide of every needed item in all equipment secured in our numerous complete plant purchases. New copy just off the press. Write for this list now, E.N. No. 301.

Address: HARRIS BROS. CO., Owners
35th and Iron Streets - - - - Chicago, Ill

SPECIAL OPPORTUNITIES SECTION

Second Hand Equipment

RAILS

We have for prompt shipment:—

65 tons 35-lb. Relaying Rails
7 miles 30-lb. Relaying Rails
11 miles 40-lb. Relaying Rails

Also a LARGE TONNAGE of 56 to 75 lb. Relaying Rails with angle bars.

EQUIPMENT

Passenger and Freight Cars.
LOCOMOTIVES
Dump Cars Spreader Cars
STEAM SHOVELS
Drag Lines Cranes

We have anything you may want in the way of high class equipment.

GET OUR PRICES

The Isaac Joseph Iron Company
525-535 Reading Road Cincinnati, Ohio

Sheet Piling

400 lineal feet Trench Piling, 14 ft. long
400 lineal feet Trench Piling 16 ft. long
400 lineal feet Trench Piling 18 ft. long
Wemlinger 2-clip Piling, 9½ lbs. per square foot.

P. O. BOX No. 1203,
Atlanta, Ga.

RAIL

FOR SALE

About 40 tons 60-lb. Steel Rail, with splices, bolts and nuts; Prompt delivery. Never used.

DALLETT & CO.
413 Harrison Building, Phila., Pa.

AIR COMPRESSORS

1—Ingersoll-Rand full Corliss steam-driven, 3,600 cu.ft.

1—Ingersoll-Rand full Corliss steam-driven, 2,100 cu.ft.

Both machines absolutely new.

1—Ingersoll-Rand Class "O-3" steam-driven, 1,650 cu.ft. Three years' service, excellent condition.

2—Ingersoll-Rand cross compound, steam and air cylinders, with Corliss valve gear, 3,300-cu.ft. capacity. Boilers and condensers with this plant. All in good condition. Bargain.

1—Rand Class "C" 98-cu.ft. straight line steam driven.

GAS AND OIL ENGINES

One 8-h.p. vertical type Fairbanks with sub base.

PUMPS

1—Cameron 3½x2x4 steam.

GENERATING UNIT

1—165 KVA Crocker-Wheeler Generator 2,300 volts, 3 phase, 60 cycle, 120 r.p.m. with exciter and switch board, direct connected to 10 in. and 20 in. x 36 in. stroke compound Harris Corliss Engine with Blake-Knowles Jet Condenser.
Excellent condition. Information upon request.

GEO. H. SAMPSON CO.
13 Pearl St., Boston, Mass., and 32 Bway., N. Y. C.; or Winston & Co., Brown Station, N. Y.

Ingersoll-Rand Air Compressor

FOR SALE

1—22¼ x 14¼ x 14-in. Class "JC" Air Compressor — No. 8130 H.P. and 8131 L.P. complete. This machine is for all practical purposes as good as new, having been in actual service less than two years.

RACINE STONE COMPANY
Corn Exchange Building Chicago, Ill.

FOR SALE

DRAGLINE

Monighan Dragline for Sale at a bargain if taken at once, Located at 13th Ave. and Harrison St., Maywood, Ill.

RUSSELL & ASHDOWN CO.
Chicago Heights, Ill.

LOCOMOTIVE CRANE

FOR SALE

20 ton INTERSTATE, standard gauge eight wheeler, 50 ft. boom, rigged to operate a two line grab bucket. Built 1910, good working order. Prompt shipment from New York State.

Price: $7,800 f.o.b. tracks.

Have several others if this don't suit.

WM. B. GRIMSHAW CO.
688 Drexel Bldg. Phila., Pa.

FOR SALE

16 in. x 36 in. Hughes & Phillips **Corliss Engine,** 150 H.P.
20 in. x 42 in. Hughes & Phillips 350 H. P. **Corliss Engine.**
250 K.W. 125 V. Westinghouse D.C. **Generator.**
125 V. 1,000 Amp. Walker Electric **Generator.**
12 in. x 12 in. x 7½ in. Norwalk 2-stage **Air Compressor.**

The above machines may be seen at the below address.

J. L. LUCAS & SON
No. 3 Fox St., Bridgeport, Conn.

FOR SALE

100 H.P. Sotter R.T. **BOILER,** butt-strapped, 100 lbs.
150 H.P. Heine Safety **BOILER,** water tube, butt-strapped, complete.
11 x 10 R.H. Harrisburg standard slide valve, self-oiling, horizontal **STEAM ENGINE,** direct connected to a 40 Kw., D.C. Generator.

DALLETT & CO.,
413 Harrison Building Phila., Pa.

IMMEDIATE DELIVERIES

LOW PRICES FIRST-CLASS PLANT

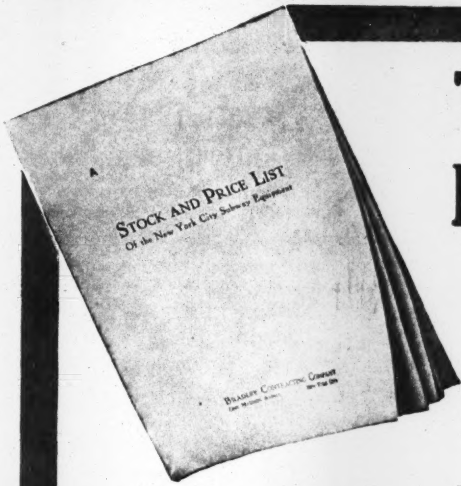
18 Western 12 yard standard gauge Air Dump Cars.
52 Western 4 yard 36 in. gauge Dump Cars.
2,300 Dinkey Ties for 36 in. gauge track.
A number of Vulcan, Porter and Davenport Locomotives, 24, 36, 42 in. and standard gauges. Ranging in size from 6 to 60 tons.
A number of Steam Shovels, both revolving and railroad types, all sizes.
Portable Track, Relaying Rails in all sizes.

WIRE—WRITE—'PHONE

CONTRACTORS' MACHINERY & SUPPLY CO.,
504-6-8 Wabash Bldg., Pittsburgh, Pa.

SPECIAL OPPORTUNITIES SECTION

Second Hand Equipment



A

STOCK AND PRICE LIST

Of the New York City Subway Equipment

Bradley Contracting Company

The Bradley Price List Is Crowded With Items Like These —

Item

CONCRETE MIXERS

225 1 Ransome Direct-Connected Electric Concrete Mixer, size No. 63, 40 cu.ft., Westinghouse direct-current motor, style S, 30 hp., volts 220, amp. 113.5 1,025, r.p.m., style 45571B.
226 1 Ransome Direct-Connected Steam Concrete Mixer, size No. 63, 40 cu.ft.
227 1 Ransome Direct-Connected Electric Concrete Mixer, size No. 63, 40 cu.ft., Westinghouse direct-current motor No. 7, type S, 30 hp., 220 volts, 113.5 amp., 1,025 r.p.m., style 45571B.
228 1 Lakewood Direct-Connected Electric Concrete Mixer motor No. 352803 type CVC, form A2, speed 700, volts 230, hp. 10, amp. 37.2.
230 1 Ransome Direct-Connected Steam Concrete Mixer, size No. 63, 40 cu.ft.
231 1 Foot Gasoline Shaft Paddle Blade Concrete Mixer, on wheels

ELECTRIC MOTORS

236 Crocker Wheeler Electric Motor No. 2428, ½ hp., size ½, CM, speed 1200, amp. 4, volts 115.
237 Continuous-Current Motor, shunt-wound, No. 156789, type C-5, form A39, speed 1150, volts 220, open hp. 5, amp. 20, closed hp. 3½.
238 Crocker Wheeler Electric Motor, no plate, size 251, type CM, 35 hp. at 750 r.p.m., 230 volts, 90.5 amp.
239 1 Small 5-hp. Electric Motor.
240 Crocker Wheeler Electric Motor No. 82225, size 251, type CM, 25 hp. at 750 r.p.m., 230 volts, 90.5 amp.
242 General Electric Motor No. 1760, class 4, 9, 850, form A, amp. 36, volts 250, hp. 10, speed 800.

SHOP MACHINERY

251 1 Pipe Machine No. 807, size ½ in. to 3-in., Williams Tool Co., belt drive.
253 1 16-in. Drill Press, belt drive.
254 1 Double 20-in. Emery Grinder, belt drive.
255 2 36-in. Grinding Stones on iron frame, 36 in. x 6 in., belt drive.
259 1 20-in. Drill Press, belt drive.
260 1 Bolt Machine, size 1½ in., belt drive, Wells Bros.
261 1 Up-Setting Machine, size 1-in. to 4-in.
262 1 Tire Banding Machine, size 4-in.
263 1 Bolt Machine, size 1½ in.
264 1 Watson & Stillman Rod Cutter.
265 1 Singer Sewing Machine, 7-9 direct electric connected.
270 1 1-Cylinder Ames Steam Engine, size 9x12, furnished by Wickes Bros., No. 2398.
271 1 1-Cylinder Steam Engine, size 8x12, Erie Engine Works.
268 1 Ajack's Drill Sharpener.
269 1 Large Electric Search Light.
273 1 Steel Frame Wooden Plank Planer, 25 ft. long. Glen Cove Machinery Co.
274 1 Plank Press, 35 ft. long.
275 1 Road Engine, locomotive type, on wheels, American Road Machine Co., with 12 in. x 16 in., portable Champion crusher.
276 1 Upright 1-Cylinder Steam Engine, 6½ in. x 4 in.
277 1 1-Cylinder Steam Engine, 7x4.
278 1 Blackburn Ventilator Wheel, 5-ft. wheel, direct-connected electric motor, volts 220, hp. 5.

CLAM SHELL BUCKETS

280 1 Williams Clam Shell Bucket No. 1506, size 2 yd.
284 1 Williams Clam Shell Bucket, size 3 yd.

GROUT MACHINES

290 3 Horizontal Gear Type Grout Machines, 20 in. x 36 in
291 2 Upright Grout Machines, 20 in. x 24 in.

SHEET PILE-DRIVING HAMMERS

292 13 Sheet Pile-Driving Steam Hammers—
  3 No. 5 Arnoth.
  2 McKiernan-Terry Drill Co., 2½-in.
  8 4-in. G Ingersoll-Rand.

STONE CRUSHERS

300 3 Reliance Stone Crushers.
301 1 Portable Champion Stone Crusher, with item No. 275

HOISTING JACKS

305 15 60-Ton Universal Jacks.
306 7 50-Ton A. O. Norton Jacks.
307 4 40-Ton Universal Jacks.
309 4 20-Ton Watson & Stillman Hydraulic Jacks.
310 10-Ton Track Jacks.

ROCK DRILLS

316 20 3½ McKiernan & Terry Drills.
317 3 F24 Ingersoll-Rand Drills.
318 Jap Drills—
  11 B. C. R. 33 Rotating Japs.
  20 Imperial I. R. Plug Japs.
  4 Ingersoll-Rand Butterfly Japs, M. V. No. 1.
  44 McKiernan "B. I." Japs.
  12 McKiernan Style "A3" Japs.
319 2 Neumer Electric Rock Drills.

TRIPODS, COLUMNS AND COLUMN ARMS FOR DRILLS

321 28 Columns for Rock Drills. } For Columns and
322 45 Column Arms for Rock Drills. } Arms.
323 2 Quarry Bars, 4 , with 2 saddles on each mounted on legs.

CHAIN HOIST BLOCKS

330 1 Steam Hoisting Block, made by Ingersoll-Rand Co., cap. 7,000 lb.
331 13 Triplex Chain Hoist Blocks, 2-ton.

Continued Next Week

Space permits the listing of only a few of the hundreds of items. Those enumerated above, however, will give you an idea of the completeness of the assortment. Watch this space next week for the continuation.

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One Madison Avenue
New York City

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Kindly send me your price list of the equipment for sale as advertised in Engineering News.
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Address ....

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100 tons 80 lb.
300 tons 68 lb.
650 tons 58 lb.
500 tons 56 lb.
800 tons 52 lb.
600 tons 40 lb.
400 tons 35 lb.
500 tons 30 lb.
250 tons 25 lb.
300 tons 20 lb.
100 tons 16 lb.
400 tons 6 in., 60 lb. Shanghai

Also Any Section New or Relay

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10—36 ft. 50,000 Capacity Box, can convert to flats
6—40 ft. 60,000 Capacity Flats
10—35 ft. 80,000 Capacity Steel Truck Flats
10—41 ft. 80,000 Capacity Steel Truck Flats
4—53 ft. 60,000 Capacity Box; Make excellent Camp Cars

ALL FIRST CLASS
FOR IMMEDIATE DELIVERY

STEEL SHEET PILING

355 pieces 7 ft. Lack. 7 x ¼ in.
360 pieces 10 to 15 ft. Lack. 12¾ x ⅜
310 pieces 12 to 16 ft. Wemlinger 12 in.
200 pieces 14 ft. Lack. 7 x ¼ in.
200 pieces 15 to 20 ft. Wemlinger 12 in.
775 pieces 15 to 20 ft. Lack. 12¾ x ⅜
1,700 pieces 20 ft. U. S. 12 x ⅜ in.
250 pieces 20 ft. U. S. 9 x ¼ in.
250 pieces 20 ft. Lack. 7 x ¼ in.
450 pieces 20 ft. U. S. 12½ x ⅜ in.
100 pieces 22 ft. U. S. 12½ x 4 in.
100 pieces 22 ft. Lack. 7 x ¼ in.
215 pieces 22 to 25 ft. Lack. 12¾ x ⅜ in.
150 pieces 25 ft. U. S. 12 x ½ in.
70 pieces 25 to 30 ft. U. S. 12½ x ⅜ in.
250 pieces 25 to 30 ft. Lack. 12¾ x ⅜ in.
84 pieces 32 ft. U. S. 12 x⅜ in.
55 pieces 32 to 35 ft. U. S. 12½ x ⅜ in.
250 pieces 32 to 35 ft. Lack. 12¾ x ⅜ in.
75 pieces 35 to 40 ft. Lack. 12¾ x ⅜ in.
190 pieces 35 to 40 ft. U. S. 12½ x ⅜ in.
65 pieces 38 ft. Lack. 14-in. Arched Web
185 pieces 40 to 45 ft. U. S. 12½ x ⅜ in.
80 pieces 45 ft. Lack. 14-in. Arched Web
450 pieces 65 ft. Lack. 14-in. Arched Web

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Cars, Locos., Machinery, Equipment. Everything for Railroad or Contractor.

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Air Compressors
Anvils
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Air Engines
Hoisting Engines
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Grout Machines
Generators
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Hospital Equipment
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Pipe Vises
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Resident Engineer, Astoria Light, Heat and Power Co.
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In Stock—Ready for Delivery

1—100 H.P. "Ames" locomotive.
1—100 H.P. "Ames" Empire.
2—90 H.P. "Ames" locomotive.
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2—50 H.P. "Ames" locomotive.

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LOCOMOTIVES

Narrow and Standard Gauge for every service, rebuilt, immediate delivery. Locomotive cranes, steam shovels, cars, etc.

Southern Iron & Equipment Company,
ATLANTA, GEORGIA

FOR SALE

LOCOMOTIVE

3-cylinder Incline Geared Locomotive built by Lima Machine Works, Lima, Ohio, 1890. No. 277, about 50 H.P., 28 tons, good for 160 lbs. steam pressure, used not more than 1,000 miles.

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1—No. 58 Lidgerwood Shaft engine
1—Lidgerwood 10½ x 14 Drag Line Excavator with 8¼ x 10 Lidgerwood swinger for same
1—Ingersoll-Rand 1,650 ft. Compressor
1—25 H.P. Advance Traction Engine
2—800 H.P. Feed Water Heaters
1—Warren-Webster 20 in. Oil Separator
10—Electric Motors, 5—50 H.P.;
8,000 ft.—1½ in., 1 in., ⅞ in., ¾ in., ⅝ in. Steel and Iron Rope.
2—McKiernan-Terry No. 2 Sheet Pile Hammers
100 pieces Lackawanna 10 in. x 10 ft. Sheet Piling
Wrought Pipe from ½ to 20 in.

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We carry a large stock of all sizes, furnished with perfect threads and couplings, sizes ¾ in. to 24 in.

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PIPE SECOND HAND

With new threads and couplings; also cut to sketch.

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Large Stock—Prompt Shipments.
Send us your inquiries.

EAGLE PIPE SUPPLY CO., Inc.,
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FOR SALE

TWO RAILROAD CRANES

one fifteen ton and one twenty ton.
For further information write

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Two 10-ton Austin Gasoline

MACADAM ROLLERS

for sale. Used but little. Low price. Write

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Large Contractor's Plant

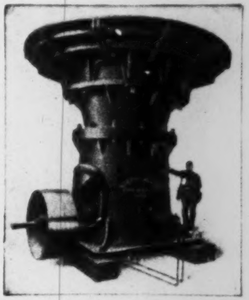
consisting of Boilers, Cars, 36 in. gauge Locomotives, Derricks, Hoisting Engines, Jacks, Concrete Mixers, Pumps, Pipe, Small Tools, etc.

List gladly furnished upon request.

Austin Gyratory Crushers

MADE IN NINE SIZES

50 to 5,000 TONS PER DAY



Plans and specifications submitted and expert advice free on any problems involving rock-crushing or earth handling.

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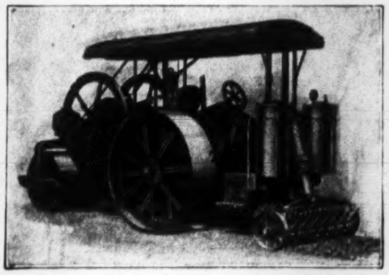
New York Office, 50 Church St. **Canadian Agents, Mussens Ltd., Montreal**

We Manufacture:—Road and Elevating Graders, Scarifiers, Road Rollers, Quarry Cars, Dump Wagons Stone Spreaders and Street Cleaning Machinery, Road Oilers.

THE LATEST THING IN ROAD. SCARIFIERS

The Austin Motor (Kerosene) Roller has received a further enhancement to its high value as a road builder



The Austin Pneumatic Scarifier Attachment

For general maintenance work, no greater labor saving device has ever been placed on a road roller. The Austin scarifier utilizes the weight and power of the roller to tear up old road surfaces in the most approved manner. The engine power is used for every movement, the teeth or tynes being pulled direct from the roller main frame, while the device is raised and lowered, quickly and simply, by compressed air supplied to the scarifier cylinder from the tanks on either side of same. The air is compressed by a two-cylinder compressor mounted above the engine cylinder and operated from the engine crank shaft.

Important Features

The operator can control every movement from his position at the roller steering wheel.

The scarifier does not interfere with the regular working parts of the roller.

It can be attached to any standard Austin 10-ton or larger roller.

Every part is accessible; nothing out of reach or out of sight.

The users of this scarifier attachment have indorsed it as a *perfect machine for the purpose.*

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The Austin-Western Road Machinery Co. - Chicago

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If so, write us. Any information we have is at your service.

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Contractors' Complete Plants Designed and Furnished—

and we might add insured — of the most efficient equipment obtainable.

For instance we handle

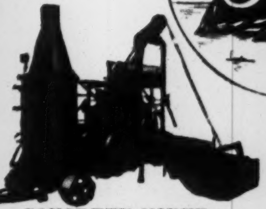
Foote Mixers

SAMPSON'S SERVICE SIGNIFIES STRENGTH

The mixers used on 75% of all paving work —

Because of their simple yet extra strong construction, easy drive and operation, and their speedy, thorough mixing of the batch.

Our Compressors and other machines are equally attractive — let's have your inquiries.



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Selling Agents for High Efficiency Equipment.

Only reliable products can be continuously advertised

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Steam and Power **Deep Well Pumps,** Single and Double Stroke; Cook's Patent Brass Tube Well Strainers; Deep Well Cylinders; Sucker Rods and Well Tools.

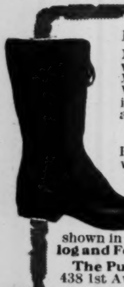
Deep Well Pumping Systems installed complete.

Cook Patent Vertical Deep Well Pumping Engine. "Steam Head."

Write for Catalog No. 12-G

Cook Patent Brass Tube Well Strainer

Cook Deep Well Products have always been manufactured by A. D. Cook, Lawrenceburg, Ind., The Cook Well Company of St. Louis, Mo., a selling organization, has retired from active business and has transferred its good will and records to A. D. Cook and in the future the customers of the Cook Well Company will receive direct service upon Cook Deep Well Products by writing to A. D. Cook, Lawrenceburg, Ind.



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Made for comfort and service. Oldest and best known waterproofed boots for Civil and Mining Engineers. Worn everywhere and justly earned the slogan "The World's Standard." Great variety of styles ready for immediate shipment, or made-to-measure for slight additional charge.

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The World's Standard **Putman Boots & Shoes**
Go on like a glove and fit all over

US ARMY SHOE

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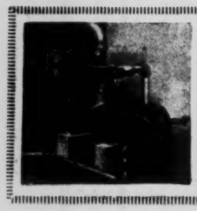

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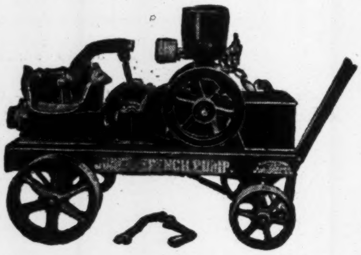
The Junior Trench Pump will lift water containing sand, gravel or sewerage. Can be operated for 7 hours on 1 gallon of gasoline with a capacity of 3,500 gallons per hour. Built for hard service. Any diaphragm pump can be fitted to the outfit.



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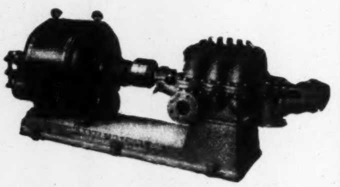
Waterford, N. Y.

(New England Agents: Perrin, Seamans & Co., 57 Oliver St., Boston, Mass.)

For Boiler Feeding



4½" three stage Boiler Feed Pump direct connected to steam turbine.

Lawrence multi-stage turbine driven pumps are foremost for high pressure boiler feed service.

The American Woolen Co. recently installed two of these outfits having a feeding capacity of 18,000 and 20,000 boiler horsepower respectively.

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Lawrence, Mass.
30 Church St., New York

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Hydraulic Dredges—Pumping Engines

Our line is complete and your needs will be served promptly. Write us your requirements.

Morris Machine Works, Baldwinsville, N. Y.
Agents in Principal Cities

Foster Superheaters

Increase capacity of boilers, give more power with less fuel, and prevent all loss and trouble due to wet steam.

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THE IMPROVED EQUIPMENT CO.
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COMBUSTION ENGINEERS
DESIGNERS AND BUILDERS OF
COMPLETE GAS PLANTS
GAS BENCHES
LIME BURNING PLANTS
GAS PRODUCERS
SPECIAL INDUSTRIAL FURNACES

As 18-K is to the Jeweler
The mark DARLING is to the Valve User The BEST
THE DARLING PUMP & MFG. COMPANY, Lim.
Williamsport, Pa.
Box E A-12

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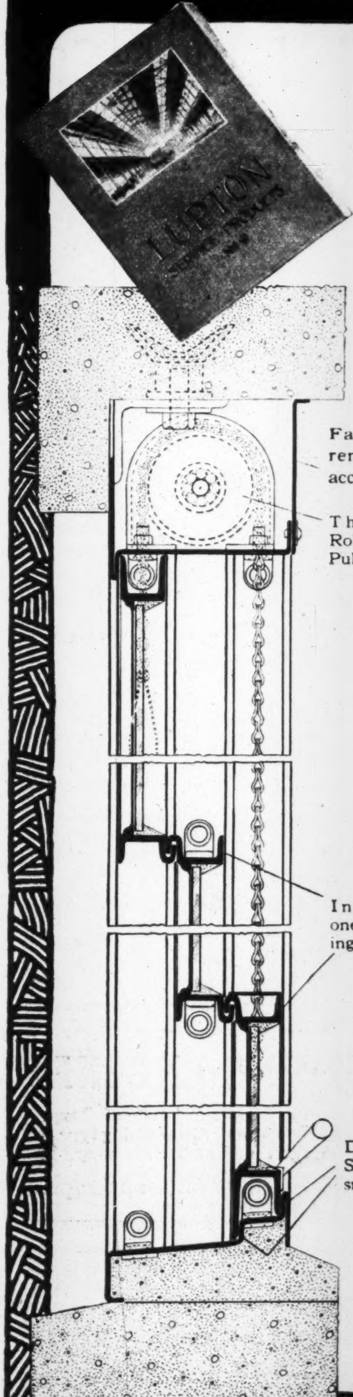
when you next order side wall sash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PRODUCTS
Face of Head removable for access to pulley
Three-inch Roller Bearing Pulleys.
Interlocking one-piece Meeting Rails.
Double rise of Sill, excluding snow and water.

They embody the very latest ideas for mill, loft and factory requirements. Every one of them helps toward better weather exclusion or cheaper maintenance.

And remember that Lupton welding doesn't mean a dab here and there—it means complete fusion into a permanently rigid unit.

LUPTON STEEL SASH
COUNTERBALANCED TYPE

is distinguished by the use of the specially rolled and welded sash members, and the one-piece head and sill here shown. No riveted-on weathering members are used; even the meeting rails are specially rolled. The double offset in sill is another exclusive Lupton feature.

Owing to the simultaneous movement of the upper and lower sash in opposite directions, equal top and bottom ventilation is assured. Hence this type of sash is especially desirable for multi-story buildings with side wall ventilation.

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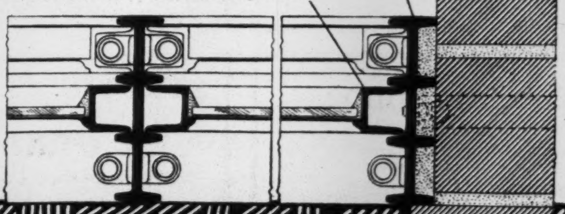
Philadelphia, Penna.

Our new Catalogue, No. 9, gives full particulars of this and other Lupton Products.


One-piece rolled steel Jambs and Mullions
Solid one-piece Members, extra heavy, with oxy-acetylene welded joints.

Lupton Products

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  - Pivoted Factory Type
  - Counterbalanced Type for factories
  - Counterweighted Type for offices
  - Power House Type
- Pond Continuous Sash for Pond Truss, sawtooths, monitors and side walls
- Pond Operating Device for long lines of sash
- Lupton Steel Skylight
- Lupton Steel Partition and Doors

A Centrifugal Pump for an Emergency

We have a brand new 14 in. horizontal bronze fitted split casing centrifugal pump direct connected to a 40 HP. 2,300 V., 60 cy., 3 ph. cage type motor complete with starter which will pump

3,000 g.p.m. against 34 ft. hd.
4,000 g.p.m. against 30 ft. hd.
5,000 g.p.m. against 24 ft. hd.
5,500 g.p.m. against 20 ft. hd.

This unit can be used for drainage, irrigation, general water supply and similar pumping requirements and

CAN BE SHIPPED IN TWO DAYS

Price $1,800.00 F.O.B. Works

Allis-Chalmers Mfg. Company
Milwaukee, Wis.

Drive Your Generator With a Samson Turbine

You can save money if you will use a Samson to drive your generator because the Samson attains a quicker speed than any other turbine operating under the same conditions. This allows the use of lighter and consequently lower priced transmission machinery.

Samson Turbines use the water economically; the speed is quick and steady; they develop great power. Write us today.

James Leffel & Co.
302 Lagonda St. Springfield, Ohio
New England Office:—L. B. Dow, Inc., 136 Federal Street, Boston, Mass.
Write for Bulletin 54

ROOT

Spiral Riveted Pipe—
Pipe Specialists for 48 years.
Abendroth & Root Mfg. Co.
Works: Newburgh, N. Y.
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Edson Diaphragm Pumps

Operated by Man or Gasoline Power

will handle Sand, Mud, Gravel, Sanitary Deposits and anything limpid enough to flow, without clogging or injury. *Send for Descriptive Catalogue.*

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Established 1859 278 Atlantic Avenue, Boston, Mass.

Gas Is the Ideal Fuel

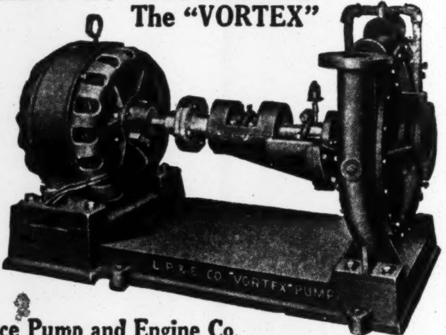
Much better results are accomplished and large money savings can be made if you specify gas as fuel for the mechanical and heat treating departments of your new plant or extension.

Consult us on any heating, carbonizing and hardening process.

Our complete line of gas fired furnaces is unsurpassed. Let us tell you more about them. Write.

American Gas Furnace Co.
Gas Engineers and Manufacturers
24 John Street - - New York

AN EFFICIENT LOW COST PUMP
The "VORTEX"



This 3-inch "Vortex" Pump with 15 H. P. Motor has a capacity of 250 gallons per minute and is built for any head up to 125 feet. Bearing surfaces are ample for permanent alignment. Absolutely no end thrust of shaft. No thrust bearings.

Get our Catalog showing the "Vortex" line of pumps

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P O Box 70, Lawrence, Mass. New York Office, 90 West St.

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STEAM TURBINE CO.
TRENTON, N. J.

Builders of TURBINE MACHINERY, including Steam Turbines of all capacities for high or low-pressure steam and for direct connection or for belt or rope drive. Complete Turbo-Generator Sets. Centrifugal Pumps for all Heads and Capacities. Centrifugal Blowers and Air Compressors. Double Helical Speed Reducing Gears.

Write for special bulletins on apparatus in which you are interested.

THE JOHN H. McGOWAN CO.

BUILDERS
McG PUMPING MACHINERY McG
IN ALL TYPES FOR ALL USES
CINCINNATI OHIO

STEAM PUMPING ENGINES

We are prepared to build the most advanced type of **Pumping Engine** of either the crank and fly-wheel or direct acting type, for **Water Works, Mines** or **Irrigation**; and centrifugal where adaptable.

R. D. WOOD & CO., 400 Chestnut St., Philadelphia

STRUTHERS-WELLS COMPANY

WARREN, PENNA.

Riveted and Welded Steel Plate Construction

New York Office: 50 Church Street
See our illustrated ad—in first issue of each month

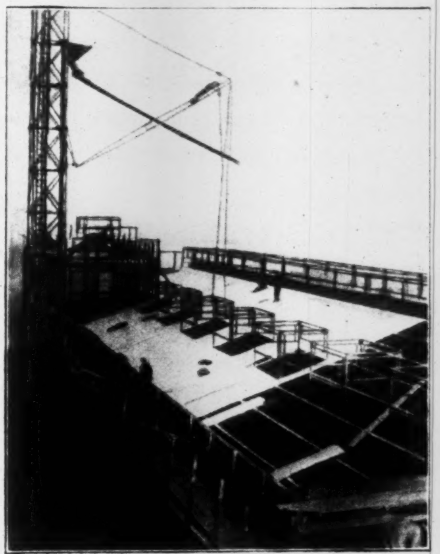
Insley Steel Towers

IN order to be a good investment, your Plant Equipment should have qualities of permanence.

The Insley Steel Tower for use in connection with Concrete Gravity Plants is

A Permanent Piece of Equipment

Easily erected—
Easily dismantled—
Rigid as of alignment—
Adjustable as to height—
100 per cent. Salvage Value.—



Eighty foot Insley Steel Tower, Curtiss Bay Distilling Company's Plant. C. Curtiss Woodruff & Co., Baltimore, Contractors.

Ask for Catalog No. 41

Insley Manufacturing Co.
Engineers—Manufacturers - - INDIANAPOLIS

Home Made—But a Winner!

How a Westinghouse 10½-Inch Cross Compound Compressor Won a Contract

Three New York City contractors were hurriedly called to bid on a rush job requiring air tools. None of them had an air outfit, and the earliest delivery obtainable was four weeks on a $2,500 outfit, consisting of boiler, compressor, tank and truck. One contractor, more resourceful than the others, telephoned our local representative, and in less than 48 hours a compressor and tank were on the ground. These were mounted on an old mule wagon in jig time, anchored, and coupled by a pipe to a neighboring steam roller. Inside of 60 hours this home-made outfit, costing less than $500, was busy on the job which netted the resourceful contractor $3,800 in two weeks.

Call us when you get in a tight place. Call any time—All times.

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Westinghouse Building
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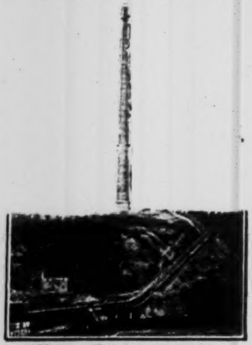

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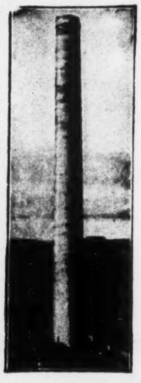

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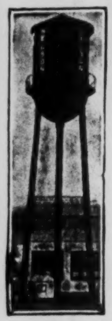

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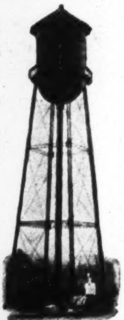

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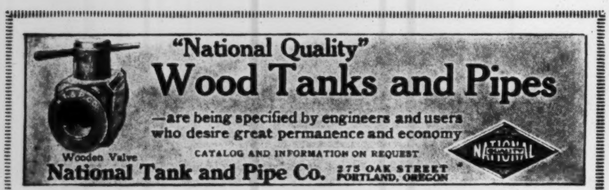

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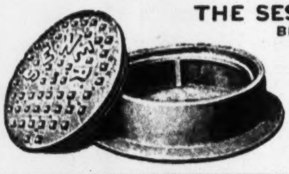

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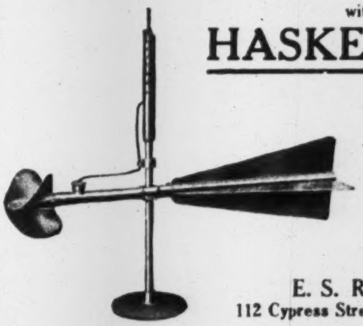

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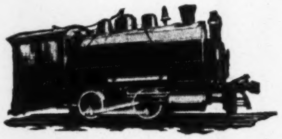

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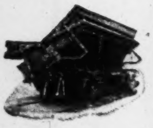

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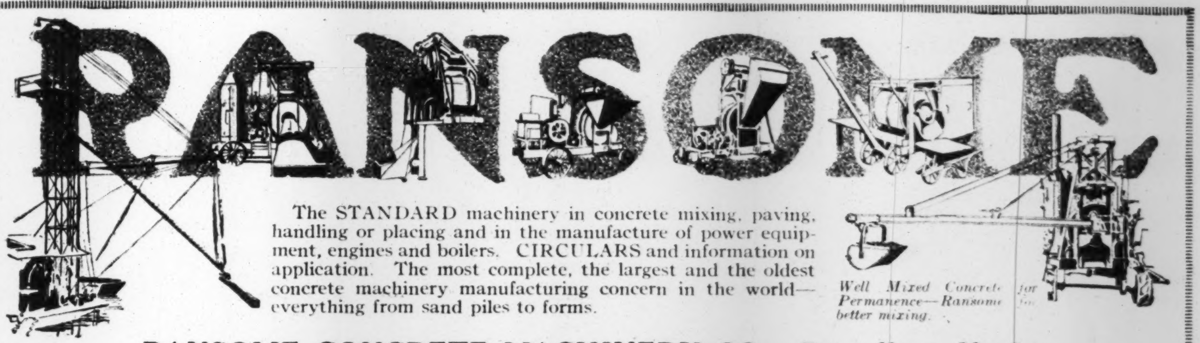
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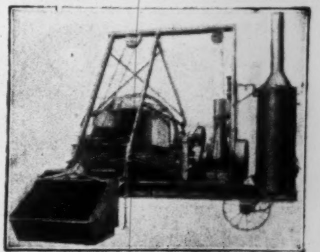

Made the World's Best Records on the Panama Canal and Los Angeles Aqueduct. Built in 10 sizes, 2½ to 64 cu. ft. capacity. **Special Machines for Road and Street Paving.**

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Our Mixer Capacities Based on N.A.M.M. Wet Batch Rating.

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Main Office: Railway Exchange, Chicago
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Agents wanted in open territory.

BUCHANAN All-Steel Crushers
CRUSHING ROLLS—MAGNETIC SEPARATORS
Crushing Plants complete in all details from 100 to 5,000 tons daily capacity.

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On the Storm King Road the "Jackhamers" are operated by an "Imperial" Type XB Power-Driven Compressor. The air line is 2½ miles in length.

Trade Mark **"JACKHAMERS"** Reg. U. S. Pat Off.

Are Drilling the Storm King Road

The John L. Hayes Const. Co. is building a 5-mile N. Y. State Highway on the sides of Storm King and Crow Nest Mountains. The rock is a hard bastard granite, partly solid and partly boulders up to 250 yards in size.

There are 12 "Jackhamers" plugging away, excavating in places where it is barely possible for a man to stand. At times ropes and canvas slings are the drill runners sole support.

Road contractors, whether their work calls for a mountainside cut or for simple trench digging, find the reliable "Jackhamer" an unequaled drill for all around, day in and day out service.

For operating these drills the Company's Portable Compressors offer complete, ready for work units with a choice of gasoline or electric motor or steam engine drive.

Bulletin 4221 describes the "Jackhamer"

Bulletin 3015 describes I-R Portable Compressors.

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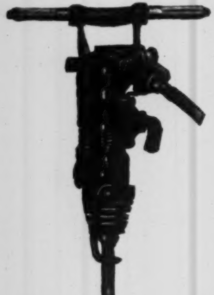

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Self-Rotating
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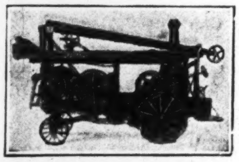
Direct Steam Driven, Belted or Geared from Motor

for Heavy Service in elevating large quantities of water from deep artesian wells. Catalog 6.



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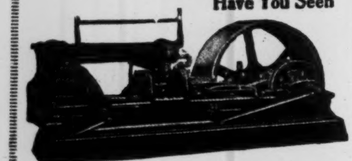

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The Norwalk Motor-Driven Compressor?

Full Load, Part Load, No Load, according to demand.

Don't be satisfied with the "as good" kind. Get "IT!"

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WIRE ROPE

of Standard and Armored Construction. Manila and Sisal Cordage. Fibreclad Wire Rope. We make Ropes for every purpose. **Write for prices.**

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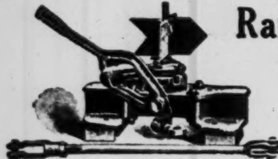

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LOCOMOTIVE CRANES

OHIO LOCOMOTIVE CRANE CO.
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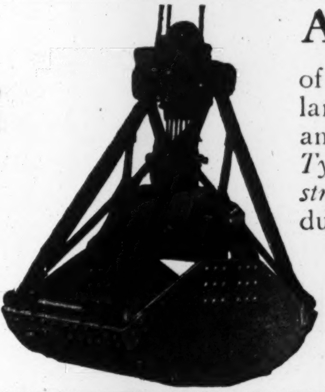
Improvements in this bucket Greatly increase the Strength and General Operating Efficiency As well as Prolong its Life of Useful Service



A Perfectly Lubricated Bucket

of reinforced steel construction, having exceptionally large bearings which are fully protected from dirt and grit at all times. This briefly describes the *new Type "L" Owen Bucket.* A bucket of *increased strength* without extra weight, *increased digging power* due to absence of friction, and a *longer life of useful service at a very low cost of maintenance.*

Every contractor and engineer will be interested in the new Bulletin No. 5 which gives information in detail. Write today

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You Will Do Better With An

OSGOOD

The OSGOOD "18" ¾ yard, traction, revolving steam shovel is designed and built for the lighter class contracting, such as road grading, cellar excavating, sewer trenching, stripping, loading and unloading cars, and in fact, the general line of excavating contracting. The boom raising and lowering device, which can be quickly and easily installed on any standard shovel, enables the operator to dig sewer trenches to a great depth. By attaching a long structural steel boom, in place of the heavy armored boom, the OSGOOD "18" will handle a clam shell bucket or do crane service efficiently.

Steam Shovels—all sizes, Deep Water and Ditching Dredges.

THE OSGOOD COMPANY, MARION, OHIO
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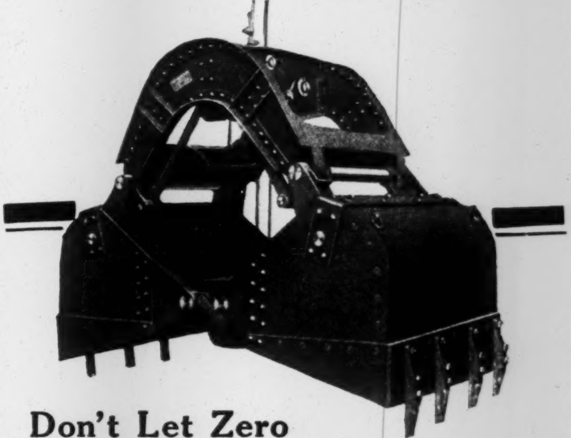

Don't Let Zero Weather Stop Your Digging

Use the bucket that's built to stand the stresses of digging in frozen material, the bucket you can't overload; the "bucket that's built with an arch"—the

Buffalo Bucket

Many contractors are blessing the sturdy arch construction in this bucket which stands between them and slow digging.

Ask us for details.

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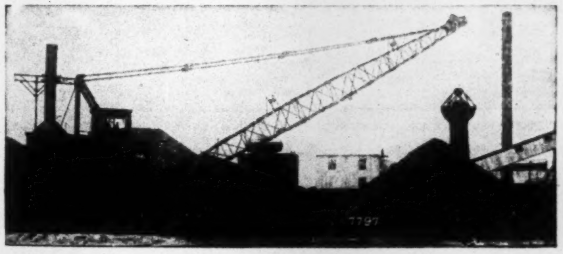

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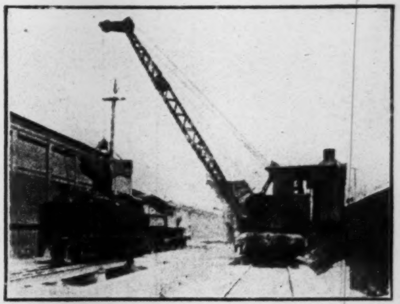
—In difficult work the—

O. S. Locomotive Cranes and Buckets

Insure satisfaction.



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Steam ***Electric*** ***Gasoline***

A complete line of Contractors' Standard Hoists.

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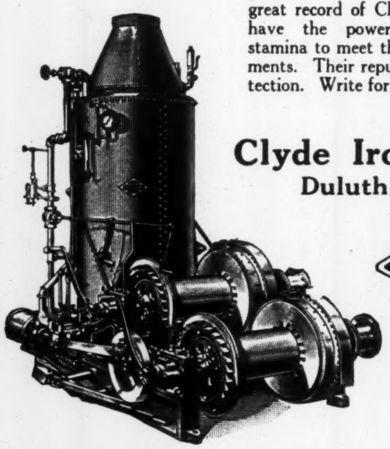
Speed
Strength
Capacity

Can You Tell a Good Hoist?

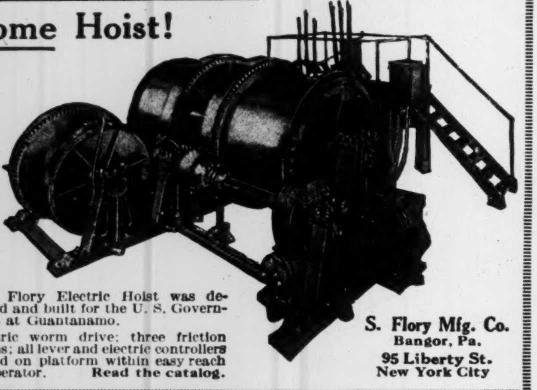
Can you distinguish a good hoist from one not so good by looking at them? Of course you can't! And the chances are you don't even think you can. The thing that determines the quality of a hoist is what it will do and how long it will do it. So when you buy a hoist you judge its merit by the performance of others like it in actual use. That is why you can best serve your own interests by investigating the great record of Clyde Hoists. They have the power, durability and stamina to meet the severest requirements. Their reputation is your protection. Write for details.



Clyde Iron Works
Duluth, Minn.

CLYDE

Some Hoist!



This Flory Electric Hoist was designed and built for the U. S. Government at Guantanamo.

Electric worm drive; three friction drums; all lever and electric controllers placed on platform within easy reach of operator. **Read the catalog.**

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A Lighter, Simpler, Cheaper Locomotive Crane

The John F. Byers Machine Co.
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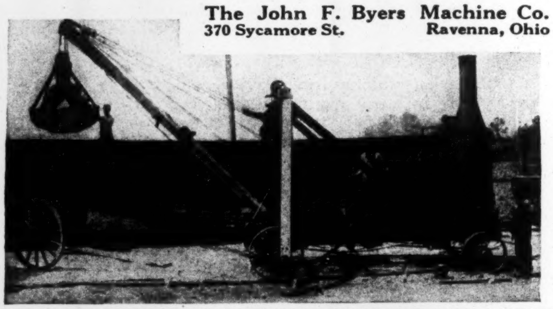

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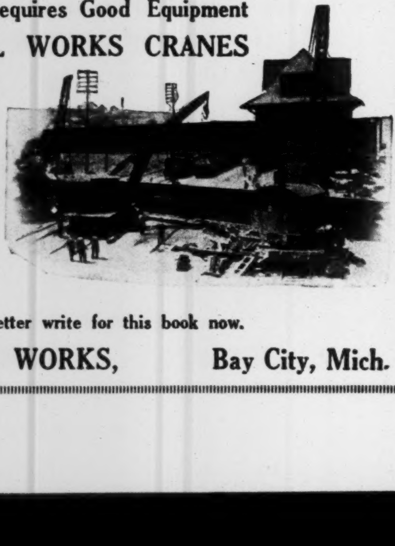
Successfully take the Hard Knocks

Catalog 108 shows many photographs of our different machines erecting bridges and buildings and handling material.



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Cranes and Hoists

Locomotive cranes, buckets, dragline excavators, crabs, winches, and concrete reinforcement. *Write for catalogs.*

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THEW Full Circle Swing Steam, Gasoline and Electric Shovels

Various types for every class of excavation. Watch for detailed advertisements in this journal. **Write for Circular 26-K.**

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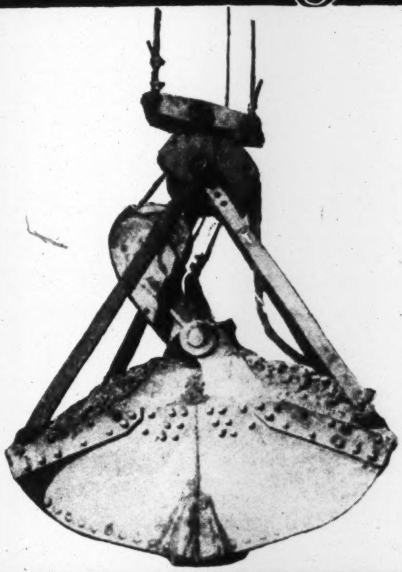
Blaw Buckets

Built to Dig and Last while Digging



Here's a Blaw Standard 2 yard Type C Bucket with manganese lips fitted for special work. It has one closing line and two holding lines on an Equalizer Bar attached to the top of the bucket. The Equalizer Bar distributes the load equally on both hold lines and absolutely prevents the bucket from swinging around.

Blaw Buckets not only cover all the contractor's digging requirements, but we build buckets for handling ore, coal, sewer digging, excavating, foundation work, dredging, sand and gravel mining, embankment work, loose rock handling, sand handling, and the handling of all bulk materials.

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601 Farmers Bank Bldg. - Pittsburgh, Pa.

And, Especially on Big Concrete Jobs

Williams Buckets

have proved to be tremendous cost reducers.

In handling sand, gravel and all sizes of trap rock these remarkable buckets have no superior. They dig deeply into the hardest packed material and swing up with their full rated capacity between the powerful jaws.

Our bucket engineers are always glad to assist contractors in solving difficult bucket problems. Let them advise you.

Write for catalog today.

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WILL DIG
IN ANY KIND
OF SOIL
ASK FOR
PAMPHLETS
HAYWARD COMPANY
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BUCKETS

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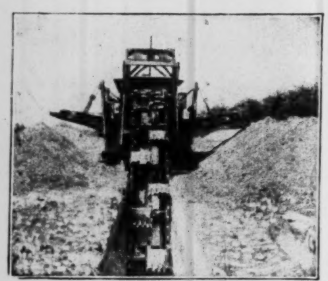
Write or wire—Service our motto. Prices always low. Let us quote on your requirements. We'll save you money on yellow pine, fir or redwood. Distributing yards, Cincinnati, Ohio.

SOUTHWESTERN LUMBER COMPANY - Park Building, Pittsburgh, Pa.

Austin Trenching Machines



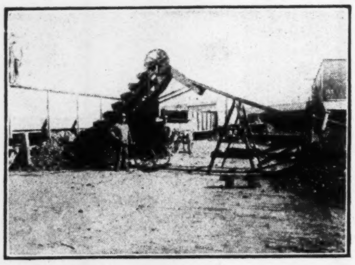
Insure low yardage cost on all kinds of trench excavation. Dig both wide and narrow sizes on same job and are easily adjustable; produce finished trench in single continuous operation; handle the stickiest soil without difficulty owing to selfcleaning buckets; equipped with multipedal traction.

The City of Chicago believes in Austin Trenching Machines—it has purchased **three** of them.

Write us for Catalog No. 102-A with full particulars.

F. C. Austin
Drainage Excavator Co.
Railway Exchange, Chicago

The Haiss Wagon Loader on the Road Contract



The arrangement illustrated should interest the contractor as to the possibilities of the Haiss Digging Wagon Loader on Road Work.

He probably knows that the Haiss is capable of effecting a saving of 10 cents a yard on the handling of crushed stone, sand, gravel, etc. Its convenience is another of its many advantages. **Read the full story in the booklet. We will send you a copy. Write.**

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PARSONS TRENCH EXCAVATOR

One Parsons will dig *several* sizes of trenches. You can select *a* Parsons to cover your season's work. Write for catalog.

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Rugged strength combined with lightness—that is a remarkable combination. It is the goal of bucket makers. This is how it is attained in

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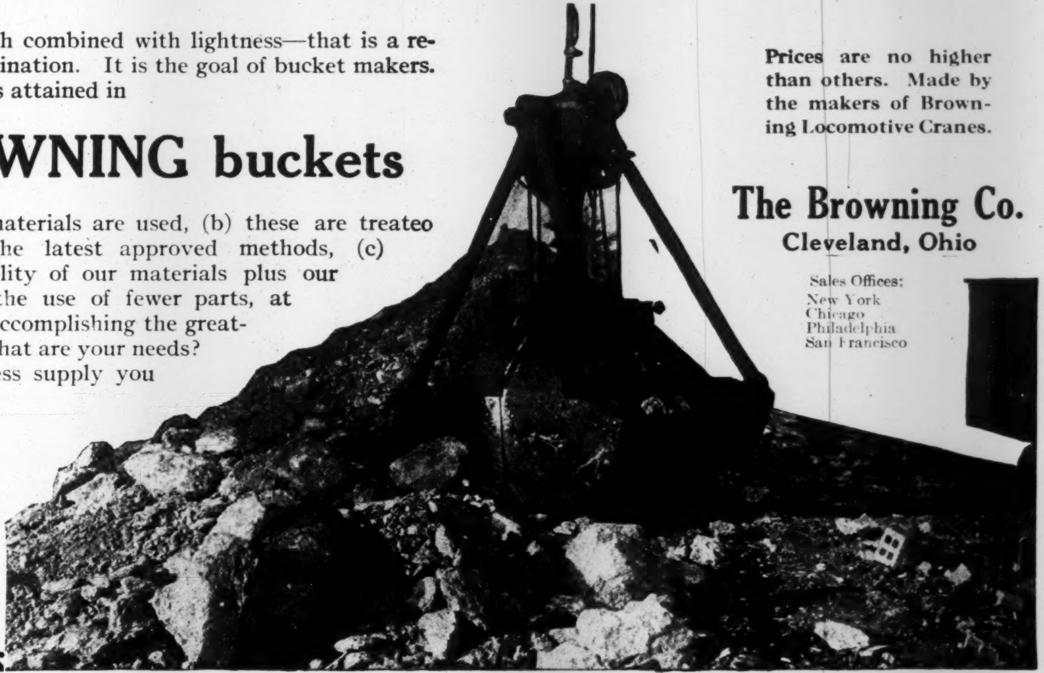
(a) the *finest* materials are used, (b) these are treateo according to the latest approved methods, (c) the higher quality of our materials plus our design allows the use of fewer parts, at the same time accomplishing the greatest strength. What are your needs? We can doubtless supply you from stock.



Prices are no higher than others. Made by the makers of Browning Locomotive Cranes.

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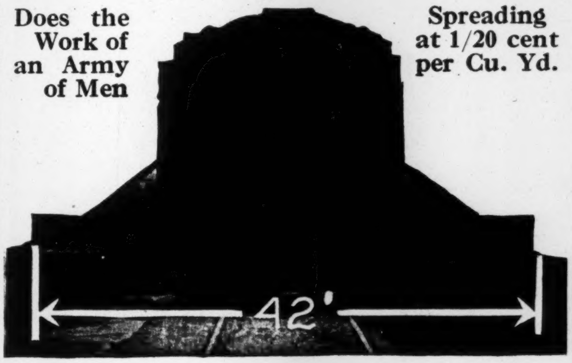
Does the Work of an Army of Men

Spreading at 1/20 cent per Cu. Yd.



The JORDAN SPREADER

42 feet from tip to tip is the reach of the wings of the Jordan Spreader.

Think of it. Working from one track you can spread fill for two additional tracks at once.

Or on large grading operations you can move the face out 21 feet each trip. The Jordan cuts 20 in. below top of rail or 14½ in. above.

No wonder it so reduces costs of hand work. 1/20 of a cent per cubic yard is a very conservative figure. **Are you approaching this?**

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Marion Shovels have great capacity, endurance, speed; ability to "get around" and "turn around" quickly. They are reasonable in first cost, operate at low expense, and require few repairs.

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We Make Excavating Machinery of Every Description
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Established 1884 **MARION, OHIO**

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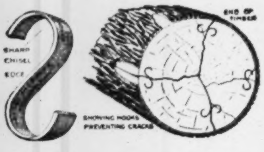

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Cuts Wood Preserving Bills in Half
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Best for Trestles, Ties, Flooring, Roofs, Bridges, Poles and General timbering work. Lasts a life-time without decay. Write for details.
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CREOSOTED TIES, LUMBER AND PILES
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Established 1881
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Creosoted cross arms, Lumber, Paving Blocks, Piles, Poles and Ties.
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Capacity 100 million feet board measure annually.
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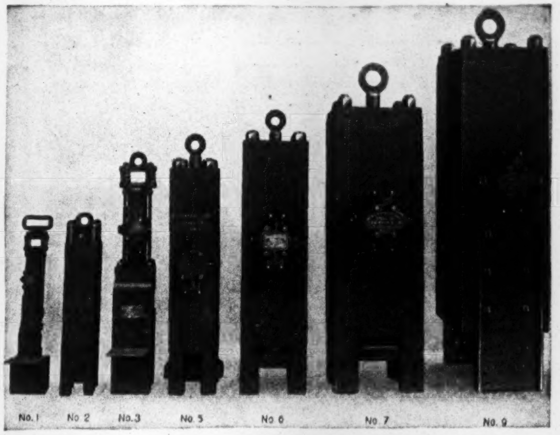
BRANCH OFFICES: 813 Prospect Ave., Cleveland; 348 James St., Montreal.



THE pile hammers shown in the above illustration will drive the lightest or the heaviest section of steel or wood sheet piling, or wood or concrete piles up to 18 inches square or round.

The high standard of excellence established by McKIERNAN-TERRY PILE HAMMERS is known to users the world over. Their reputation for consistent and economical work is the reason.

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Rock Drills, Core Drills, Hammer Drills, Atlas Jacks.

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AETNA

Low-Freezing Standard Dynamites

(Low-Freezing Ammonia)

leave that pleasant "after taste" with you when used for your Blasting. They leave it with your pocket-book, too, by reason of their low cost, their great disruptive power and by the elimination of unnecessary thawing in cold temperatures.

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AETNA EXPLOSIVES COMPANY
Incorporated
120 Broadway - - New York

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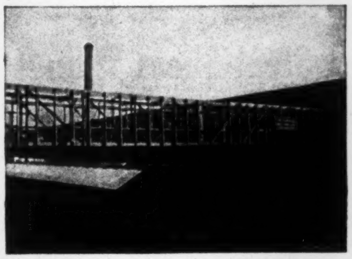

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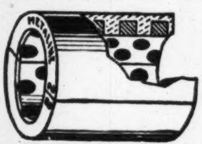

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excel all other types for durability under heavy loads, and hard service.

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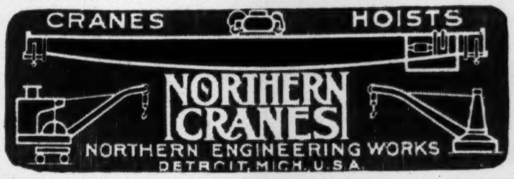

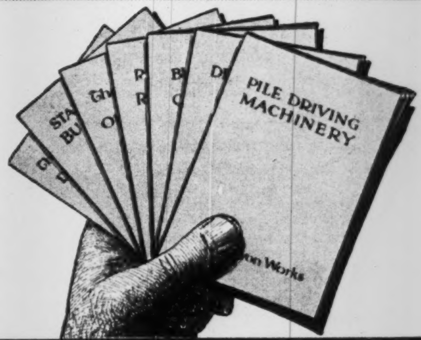

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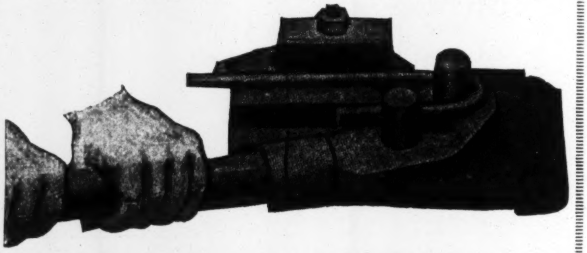

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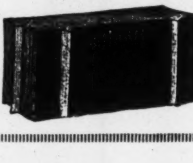

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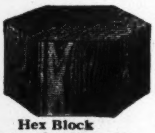

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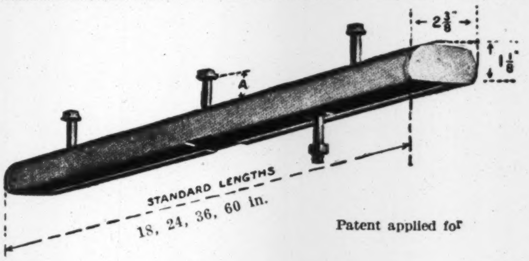

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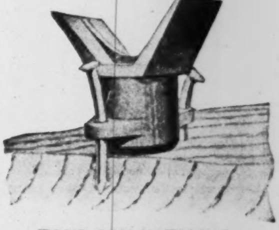

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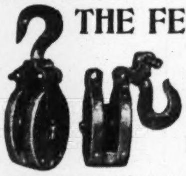

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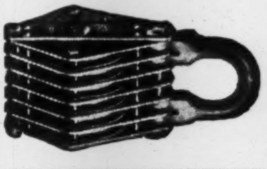

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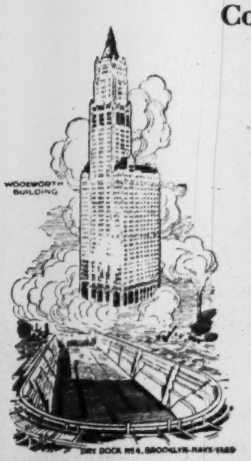
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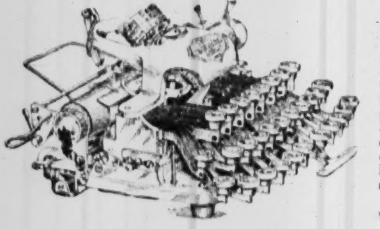

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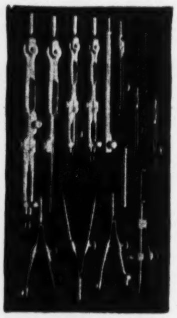

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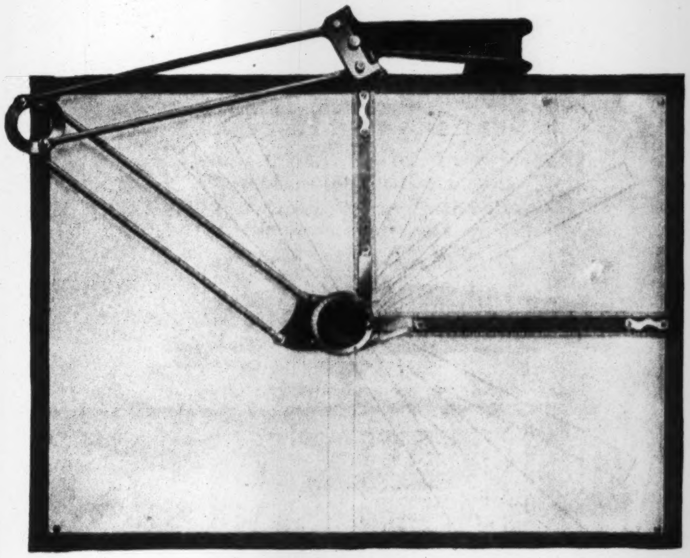

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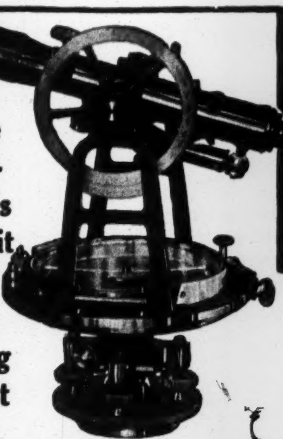

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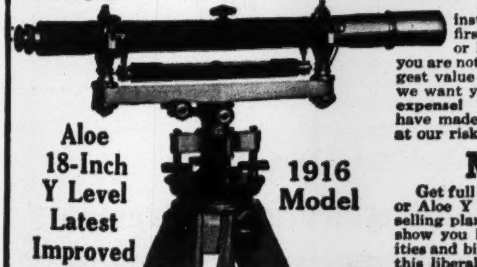

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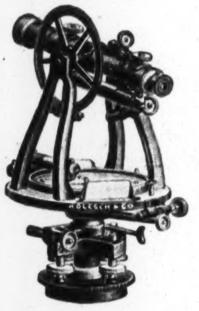

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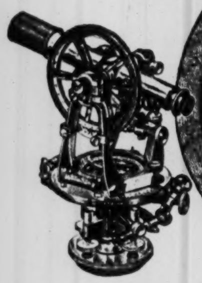

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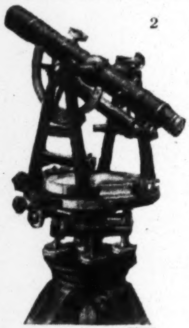

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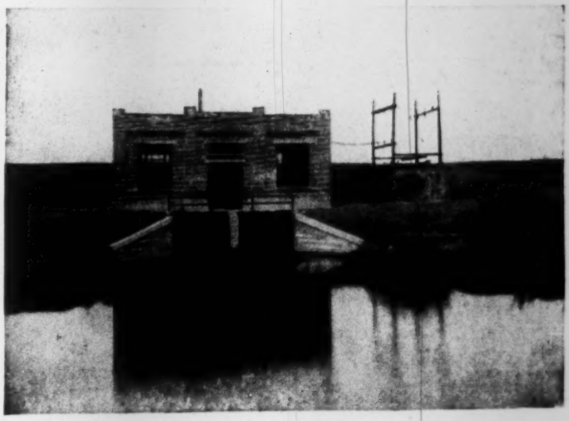

Low cost for construction and small expense for operation are features wherein the Marion County Drainage Pumping Station excel all other drainage pumping plants of equal capacity in the Mississippi Valley.

The Marion County Drainage District is located a few miles above Hannibal, Mo., contains 4,000 acres of fertile soil and has a watershed of 6,500 acres. This district has one electrically-operated drainage pumping station: the designing of levees ditches and pumping station and superintendence of work being done by The Edmond T. Perkins Engineering Co. of Chicago and Quincy, Ill.

The pumping station contains two 30-in., Type W "American," solid shell, all iron, double suction centrifugal pumps driven through silent chains from two 100 H.P., 3-phase, 25-cycle, 440-volt, squirrel cage, General Electric motors running at 480 R.P.M. Pumps operate singly or in parallel, pumping against a static head ranging from zero to 14 ft., depending upon the stage of the river and the level of water in ditches within levee.

These pumps operate at two speeds, depending on the head. Speed is varied by changing the size of chain pinion on the motor shaft. For static heads from zero to about 10 ft. the smaller sprocket is used delivering respectively from about 25,000 to 15,000 G.P.M. When static head is from 10 to 14 ft., which rarely occurs, the larger sprocket for higher speed is used which maintains an equal range of capacity. In this way pump efficiencies range from a minimum of about 65% up to about 80%.

Exterior and interior views of this pumping plant are shown in the accompanying illustrations. The water passes from the suction bay through cast iron suction piping and Y's to the pumps and out to a fore-bay common to the two pumps and a part of the gravity culvert through the levee.

Electric current at 11,000 volts originating at Keokuk is transmitted across the Mississippi River from Illinois by a submarine cable and is stepped down outside the plant for operating power to 440 volts.

This is only an example of the economy of "American" Centrifugal Pumps in many drainage pumping plants throughout the Mississippi Valley.

Catalog 132 describes these pumps.
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Barrett Specification Roofs

Guaranteed for 20 Years

We Standardized the Roofs—Now We Standardize the Guarantee!

A DOZEN years ago the introduction of The Barrett Specification standardized roofing practice throughout the country and gave to the old "tar-and-gravel roof" a definite character and reliability.

Local contractors, in the past, have been accustomed to guaranteeing roofs of this type, free of repairs for from five to ten years.

To good reliable roofers such guarantees were no burden because the roof they constructed would last much longer than the guaranteed period.

The fly-by-night roofer, however, did a poor and cheap job, gave his guarantee recklessly—and was generally out of business when the roof leaked or trouble came.

As manufacturers of the materials used in Barrett Specification Roofs we, therefore, determined a short time ago to standardize these guarantees and *make them of real value to users of Barrett Specification Roofs.*

We, therefore, arranged with the U. S. Fidelity & Guaranty Company to issue a 20-Year Guaranty Bond covering every Barrett Specification Roof of 50 squares and over *wherever our inspection service was available.*

Today this Guaranty and Inspection Service covers all towns of 25,000 population and over and most of the smaller places in the thickly populated parts of the United States and Canada. This means that only 5% of the population is outside the radius of our Guaranty.

This bond takes the place of short-term guarantees formerly issued by the local roofer and obviously is far better because:

—it is for 20 years (instead of the usual five or ten)

—it is backed by a $15,000,000 Corporation

—it has the further backing of a great Surety Company

—it provides for an *impartial expert inspection of the job.*

How to Get the 20-Year Guaranty

When you are writing your roofing specification say:

> "The roof shall be a Barrett Specification Roof laid in accordance with The Barrett Specification, dated May 1, 1916, by a roofing contractor approved by The Barrett Company. The roofing contractor shall furnish The Barrett Company's Surety Bond Guaranty for twenty years, in accordance with Note 1 of said Specification."

On this solid and honest basis as many contractors as you desire may estimate on the job.

The winning contractor notifies us that he wishes the 20-Year Surety Bond and requests our Inspection Service.

One of our inspectors supervises the construction of the roof, tests it by cutting a cross-section, checks up the quantity and the quality of the materials used and certifies that The Barrett Specification has been strictly followed.

On the basis of the inspector's report the 20-Year Guaranty Bond is issued by the U. S. Fidelity & Guaranty Company, and the bond exempts the owner from all expense for repairs or maintenance for the next 20 years.

The Guaranty Bond costs you nothing. The service is free *in the interest of good workmanship and the good repute of our materials.*

While we guarantee Barrett Specification Roofs for only 20 years the chances are that they will last much longer.

We know of instances where this type of roof has lasted twice as long without any expense.

Barrett Specification Roofs are recognized today as the standard covering for permanent buildings of all kinds. The cost, per year of service, is less than any other roof covering. They take the base rate of insurance and are approved as "Class A" construction by the Underwriters' Laboratories, Inc.

If you are interested in the proposition we shall be glad to send you further details on request.

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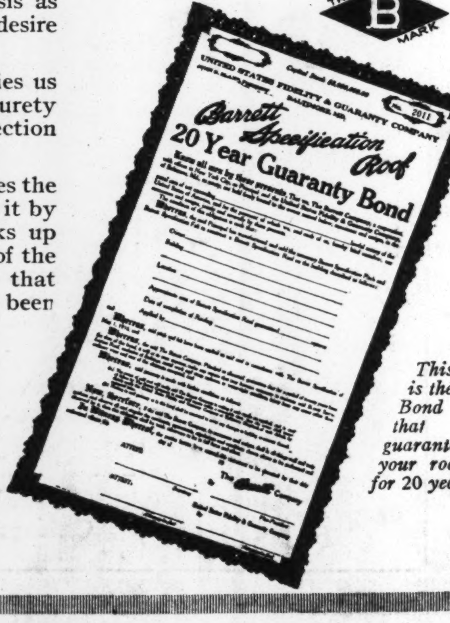

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Barrett Specification Roof

20 Year Guaranty Bond

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